

PA-0035 US

<110> Kaser, Matthew R.

<120> GENES EXPRESSED IN TREATED HUMAN C3A LIVER CELL CULTURES

<130> PA-0035 US

<140> To Be Assigned

<141> Herewith

<150> 60/222,113

<151> 2000-07-28

<160> 401

<170> PERL Program

<210> 1

<211> 572

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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<211> 263

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 016238.1

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<221> unsure

<222> 22, 26, 42

<223> a, t, c, g, or other

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tctttcaggg acgtgatgcc tttaaggatc tggcaagcta gtgatatgtg tcagaaatca 180
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<211> 212
<212> DNA
<213> Homo sapiens

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<220>
<221> unsure
<222> 42, 161
<223> a, t, c, g, or other

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aagtacaggg gcctggtccg caaaggggaag aaaagcaaaa nacgaaaatg gctaaattcg 180
tgatccgccc agccactgcc gccgactgca gt 212

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<213> Homo sapiens

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<223> Incyte ID No: 129384.1c

<220>
<221> unsure
<222> 482, 555
<223> a, t, c, g, or other

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ctccacgaat aaataaaaaac cgtaaaaaaac caagcccgga gaaaggggaa agcgggggtg 240
ggcgcatcct tataggagag aagaggcgtg tagcgaataa agtgacagcc cccaccctg 300
gaccgcgagg ctcaggagtc cacgcgggga gaggggatgg agaactctcc togettctgc 360
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<212> DNA
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<220>

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<221> misc_feature

<223> Incyte ID No: 3201389CB1

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agggaggagg tccgggtccc gggctagggc agcccgagc gtggagaggg tccccggcag 240
ccccgcgcgc ccctggccat gtctttaatg ccctgcccc tcatgtggcc ttctgagggt 300
tcccagggtt ggccagggtt gtttcccacc cgcgcgcgcg ctctcaccce cagccaaacc 360
cacctggcag ggctccctcc agccagagacc ttttgattcc cggctcccgc gctcccgcct 420
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aatccacccc aggagcccag gagccttgcc tgacacttgg atttacttct ttatcaagca 1920
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gacatttttg aagtaattgg agaaaattaa gcataggctg tgtcctatta gatgttagat 2340
aattagatcg ttatttttaa ttttgttgga tgtgataatg gcattgtcct taactggtaa 2400
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<210> 6

<211> 429

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3201389CD1

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<400> 6

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Gln	Pro	Pro	Ala	Pro	Val	Asn	Ile	Ser	Lys	Ala	Ile	Leu	Leu	Gly
				20					25					30
Val	Ile	Leu	Gly	Gly	Leu	Ile	Leu	Phe	Gly	Val	Leu	Gly	Asn	Ile
				35					40					45
Leu	Val	Ile	Leu	Ser	Val	Ala	Cys	His	Arg	His	Leu	His	Ser	Val
				50					55					60
Thr	His	Tyr	Tyr	Ile	Val	Asn	Leu	Ala	Val	Ala	Asp	Leu	Leu	Leu
				65					70					75
Thr	Ser	Thr	Val	Leu	Pro	Phe	Ser	Ala	Ile	Phe	Glu	Val	Leu	Gly
				80					85					90
Tyr	Trp	Ala	Phe	Gly	Arg	Val	Phe	Cys	Asn	Ile	Trp	Ala	Ala	Val
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Asp	Val	Leu	Cys	Cys	Thr	Ala	Ser	Ile	Met	Gly	Leu	Cys	Ile	Ile
				110					115					120
Ser	Ile	Asp	Arg	Tyr	Ile	Gly	Val	Ser	Tyr	Pro	Leu	Arg	Tyr	Pro
				125					130					135
Thr	Ile	Val	Thr	Gln	Arg	Arg	Gly	Leu	Met	Ala	Leu	Leu	Cys	Val
				140					145					150
Trp	Ala	Leu	Ser	Leu	Val	Ile	Ser	Ile	Gly	Pro	Leu	Phe	Gly	Trp
				155					160					165
Arg	Gln	Pro	Ala	Pro	Glu	Asp	Glu	Thr	Ile	Cys	Gln	Ile	Asn	Glu
				170					175					180
Glu	Pro	Gly	Tyr	Val	Leu	Phe	Ser	Ala	Leu	Gly	Ser	Phe	Tyr	Leu
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Pro	Leu	Ala	Ile	Ile	Leu	Val	Met	Tyr	Cys	Arg	Val	Tyr	Val	Val
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Ala	Lys	Arg	Glu	Ser	Arg	Gly	Leu	Lys	Ser	Gly	Leu	Lys	Thr	Asp
				215					220					225
Lys	Ser	Asp	Ser	Glu	Gln	Val	Thr	Leu	Arg	Ile	His	Arg	Lys	Asn
				230					235					240
Ala	Pro	Ala	Gly	Gly	Ser	Gly	Met	Ala	Ser	Ala	Lys	Thr	Lys	Thr
				245					250					255
His	Phe	Ser	Val	Arg	Leu	Leu	Lys	Phe	Ser	Arg	Glu	Lys	Lys	Ala
				260					265					270
Ala	Lys	Thr	Leu	Gly	Ile	Val	Val	Gly	Cys	Phe	Val	Leu	Cys	Trp
				275					280					285
Leu	Pro	Phe	Phe	Leu	Val	Met	Pro	Ile	Gly	Ser	Phe	Phe	Pro	Asp
				290					295					300
Phe	Lys	Pro	Ser	Glu	Thr	Val	Phe	Lys	Ile	Val	Phe	Trp	Leu	Gly
				305					310					315
Tyr	Leu	Asn	Ser	Cys	Ile	Asn	Pro	Ile	Ile	Tyr	Pro	Cys	Ser	Ser
				320					325					330
Gln	Glu	Phe	Lys	Lys	Ala	Phe	Gln	Asn	Val	Leu	Arg	Ile	Gln	Cys
				335					340					345
Leu	Arg	Arg	Lys	Gln	Ser	Ser	Lys	His	Ala	Leu	Gly	Tyr	Thr	Leu
				350					355					360
His	Pro	Pro	Ser	Gln	Ala	Val	Glu	Gly	Gln	His	Lys	Asp	Met	Val
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Arg	Ile	Pro	Val	Gly	Ser	Arg	Glu	Thr	Phe	Tyr	Arg	Ile	Ser	Lys
				380					385					390
Thr	Asp	Gly	Val	Cys	Glu	Trp	Lys	Phe	Phe	Ser	Ser	Met	Pro	Arg
				395					400					405
Gly	Ser	Ala	Arg	Ile	Thr	Val	Ser	Lys	Asp	Gln	Ser	Ser	Cys	Thr

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410 415 420
Thr Ala Arg Gly His Thr Pro Met Thr
425

<210> 7
<211> 624
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 086390CB1

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gtcaccagtg aaagctggcg ttcgtttttc aaggaggctc tccaaggggt tggggacatg 180
ggcagagcct attgggacat aatgatatcc aatcaccaaa attcaaacag atatctctat 240
gctcggggaa actatgatgc tgcccaaaga ggacctgggg gtgtctgggc tgctaaactc 300
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<210> 8
<211> 130
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 086390CD1

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20 25 30
Gly Val Gly Asp Met Gly Arg Ala Tyr Trp Asp Ile Met Ile Ser
35 40 45
Asn His Gln Asn Ser Asn Arg Tyr Leu Tyr Ala Arg Gly Asn Tyr
50 55 60
Asp Ala Ala Gln Arg Gly Pro Gly Gly Val Trp Ala Ala Lys Leu
65 70 75
Ile Ser Arg Ser Arg Val Tyr Leu Gln Gly Leu Ile Asp Tyr Tyr
80 85 90
Leu Phe Gly Asn Ser Ser Thr Val Leu Glu Asp Ser Lys Ser Asn
95 100 105
Glu Lys Ala Glu Glu Trp Gly Arg Ser Gly Lys Asp Pro Asp Arg
110 115 120
Phe Arg Pro Asp Gly Leu Pro Lys Lys Tyr
125 130

<210> 9
<211> 852
<212> DNA

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<213> Homo sapiens

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<223> Incyte ID No: 1102322.16

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<211> 2260

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1545176CB1

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ctgctcttgg atgtcactcc tctttccctt ggtattgaaa ctgctggtgg agtcatgact 1320
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<210> 11
 <211> 646
 <212> PRT
 <213> Homo sapiens

<220>
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 35 40 45
 Asp Thr Glu Arg Leu Ile Gly Asp Ala Ala Lys Asn Gln Val Ala
 50 55 60
 Met Asn Pro Thr Asn Thr Val Phe Asp Ala Lys Arg Leu Ile Gly
 65 70 75
 Arg Arg Phe Asp Asp Ala Val Val Gln Ser Asp Met Lys His Trp
 80 85 90
 Pro Phe Met Val Val Asn Asp Ala Gly Arg Pro Lys Val Gln Val
 95 100 105
 Glu Tyr Lys Gly Glu Thr Lys Ser Phe Tyr Pro Glu Glu Val Ser
 110 115 120
 Ser Met Val Leu Thr Lys Met Lys Glu Ile Ala Glu Ala Tyr Leu
 125 130 135
 Gly Lys Thr Val Thr Asn Ala Val Val Thr Val Pro Ala Tyr Phe
 140 145 150
 Asn Asp Ser Gln Arg Gln Ala Thr Lys Asp Ala Gly Thr Ile Ala
 155 160 165
 Gly Leu Asn Val Leu Arg Ile Ile Asn Glu Pro Thr Ala Ala Ala
 170 175 180
 Ile Ala Tyr Gly Leu Asp Lys Lys Val Gly Ala Glu Arg Asn Val
 185 190 195
 Leu Ile Phe Asp Leu Gly Gly Gly Thr Phe Asp Val Ser Ile Leu
 200 205 210
 Thr Ile Glu Asp Gly Ile Phe Glu Val Lys Ser Thr Ala Gly Asp
 215 220 225

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Thr	His	Leu	Gly	Gly	Glu	Asp	Phe	Asp	Asn	Arg	Met	Val	Asn	His	
				230					235					240	
Phe	Ile	Ala	Glu	Phe	Lys	Arg	Lys	His	Lys	Lys	Asp	Ile	Ser	Glu	
				245					250					255	
Asn	Lys	Arg	Ala	Val	Arg	Arg	Leu	Arg	Thr	Ala	Cys	Glu	Arg	Ala	
				260					265					270	
Lys	Arg	Thr	Leu	Ser	Ser	Ser	Thr	Gln	Ala	Ser	Ile	Glu	Ile	Asp	
				275					280					285	
Ser	Leu	Tyr	Glu	Gly	Ile	Asp	Phe	Tyr	Thr	Ser	Ile	Thr	Arg	Ala	
				290					295					300	
Arg	Phe	Glu	Glu	Leu	Asn	Ala	Asp	Leu	Phe	Arg	Gly	Thr	Leu	Asp	
				305					310					315	
Pro	Val	Glu	Lys	Ala	Leu	Arg	Asp	Ala	Lys	Leu	Asp	Lys	Ser	Gln	
				320					325					330	
Ile	His	Asp	Ile	Val	Leu	Val	Gly	Gly	Ser	Thr	Arg	Ile	Pro	Lys	
				335					340					345	
Ile	Gln	Lys	Leu	Leu	Gln	Asp	Phe	Phe	Asn	Gly	Lys	Glu	Leu	Asn	
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Lys	Ser	Ile	Asn	Pro	Asp	Glu	Ala	Val	Ala	Tyr	Gly	Ala	Ala	Val	
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 Gln Glu Glu Leu Arg Leu Gln Thr Pro Ala Glu Thr Leu Leu Ser
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Asp Ser Ile Pro His Thr Val Val Leu Thr Val Val Glu Gly Trp	110	115	120
Ala Thr Leu Ser Val Asp Gly Phe Leu Asn Ala Ser Ser Ala Val	125	130	135
Pro Gly Ala Pro Leu Glu Val Pro Tyr Gly Leu Phe Val Gly Gly	140	145	150
Thr Gly Thr Leu Gly Leu Pro Tyr Leu Arg Gly Thr Ser Arg Pro	155	160	165
Leu Arg Gly Cys Leu His Ala Ala Thr Leu Asn Gly Arg Ser Leu	170	175	180
Leu Arg Pro Leu Thr Pro Asp Val His Glu Gly Cys Ala Glu Glu	185	190	195
Phe Ser Ala Ser Asp Asp Val Ala Leu Gly Phe Ser Gly Pro His	200	205	210
Ser Leu Ala Ala Phe Pro Ala Trp Gly Thr Gln Asp Glu Gly Thr	215	220	225
Leu Glu Phe Thr Leu Thr Thr Gln Ser Arg Gln Ala Pro Leu Ala	230	235	240
Phe Gln Ala Gly Gly Arg Arg Gly Asp Phe Ile Tyr Val Asp Ile	245	250	255
Phe Glu Gly His Leu Arg Ala Val Val Glu Lys Gly Gln Gly Thr	260	265	270
Val Leu Leu His Asn Ser Val Pro Val Ala Asp Gly Gln Pro His	275	280	285
Glu Val Ser Val His Ile Asn Ala His Arg Leu Glu Ile Ser Val	290	295	300
Asp Gln Tyr Pro Thr His Thr Ser Asn Arg Gly Val Leu Ser Tyr	305	310	315
Leu Glu Pro Arg Gly Ser Leu Leu Leu Gly Gly Leu Asp Ala Glu	320	325	330
Ala Ser Arg His Leu Gln Glu His Arg Leu Gly Leu Thr Pro Glu	335	340	345
Ala Thr Asn Ala Ser Leu Leu Gly Cys Met Glu Asp Leu Ser Val	350	355	360
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Met Ala Ala Gly Cys Arg Leu Glu Glu Glu Glu Tyr Glu Asp Asp	380	385	390
Ala Tyr Gly His Tyr Glu Ala Phe Ser Thr Leu Ala Pro Glu Ala	395	400	405
Trp Pro Ala Met Glu Leu Pro Glu Pro Cys Val Pro Glu Pro Gly	410	415	420
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Pro Leu Val Val Ala Glu Gly Gly Thr Ala Trp Leu Glu Trp Arg	440	445	450
His Val Gln Pro Thr Leu Asp Leu Met Glu Ala Glu Leu Arg Lys	455	460	465
Ser Gln Val Leu Phe Ser Val Thr Arg Gly Ala His Tyr Gly Glu	470	475	480
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Ile Phe Pro His Gly Ser Leu Met Val Ile Leu Glu His Thr Gln	560	565	570
Lys Pro Leu Gly Pro Glu Val Phe Gln Ala Tyr Asp Pro Asp Ser	575	580	585
Ala Cys Glu Gly Leu Thr Phe Gln Val Leu Gly Thr Ser Ser Gly	590	595	600
Leu Pro Val Glu Arg Arg Asp Gln Pro Gly Glu Pro Ala Thr Glu	605	610	615
Phe Ser Cys Arg Glu Leu Glu Ala Gly Ser Leu Val Tyr Val His	620	625	630
Cys Gly Gly Pro Ala Gln Asp Leu Thr Phe Arg Val Ser Asp Gly	635	640	645
Leu Gln Ala Ser Pro Pro Ala Thr Leu Lys Val Val Ala Ile Arg	650	655	660
Pro Ala Ile Gln Ile His Arg Ser Thr Gly Leu Arg Leu Ala Gln	665	670	675
Gly Ser Ala Met Pro Ile Leu Pro Ala Asn Leu Ser Val Glu Thr	680	685	690
Asn Ala Val Gly Gln Asp Val Ser Val Leu Phe Arg Val Thr Gly	695	700	705
Ala Leu Gln Phe Gly Glu Leu Gln Lys His Ser Thr Gly Gly Val	710	715	720
Glu Gly Ala Glu Trp Trp Ala Thr Gln Ala Phe His Gln Arg Asp	725	730	735
Val Glu Gln Gly Arg Val Arg Tyr Leu Ser Thr Asp Pro Gln His	740	745	750
His Ala Tyr Asp Thr Val Glu Asn Leu Ala Leu Glu Val Gln Val	755	760	765
Gly Gln Glu Ile Leu Ser Asn Leu Ser Phe Pro Val Thr Ile Gln	770	775	780
Arg Ala Thr Val Trp Met Leu Arg Leu Glu Pro Leu His Thr Gln	785	790	795
Asn Thr Gln Gln Glu Thr Leu Thr Thr Ala His Leu Glu Ala Thr	800	805	810
Leu Glu Glu Ala Gly Pro Ser Pro Pro Thr Phe His Tyr Glu Val	815	820	825
Val Gln Ala Pro Arg Lys Gly Asn Leu Gln Leu Gln Gly Thr Arg	830	835	840
Leu Ser Asp Gly Gln Gly Phe Thr Gln Asp Asp Ile Gln Ala Gly	845	850	855
Arg Val Thr Tyr Gly Ala Thr Ala Arg Ala Ser Glu Ala Val Glu	860	865	870
Asp Thr Phe Arg Phe Arg Val Thr Ala Pro Pro Tyr Phe Ser Pro	875	880	885
Leu Tyr Thr Phe Pro Ile His Ile Gly Gly Asp Pro Asp Ala Pro	890	895	900
Val Leu Thr Asn Val Leu Leu Val Val Pro Asp Gly Gly Glu Gly	905	910	915
Val Leu Ser Ala Asp His Leu Phe Val Lys Ser Leu Asn Ser Ala	920	925	930
Ser Tyr Leu Tyr Glu Val Met Glu Arg Pro Arg His Gly Arg Leu	935	940	945

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Ala	Trp	Arg	Gly	Thr	Gln	Asp	Lys	Thr	Thr	Met	Val	Thr	Ser	Phe	950	955	960
Thr	Asn	Glu	Asp	Leu	Leu	Arg	Gly	Arg	Leu	Val	Tyr	Gln	His	Asp	965	970	975
Asp	Ser	Glu	Thr	Thr	Glu	Asp	Asp	Ile	Pro	Phe	Val	Ala	Thr	Arg	980	985	990
Gln	Gly	Glu	Ser	Ser	Gly	Asp	Met	Ala	Trp	Glu	Glu	Val	Arg	Gly	995	1000	1005
Val	Phe	Arg	Val	Ala	Ile	Gln	Pro	Val	Asn	Asp	His	Ala	Pro	Val	1010	1015	1020
Gln	Thr	Ile	Ser	Arg	Ile	Phe	His	Val	Ala	Arg	Gly	Gly	Arg	Arg	1025	1030	1035
Leu	Leu	Thr	Thr	Asp	Asp	Val	Ala	Phe	Ser	Asp	Ala	Asp	Ser	Gly	1040	1045	1050
Phe	Ala	Asp	Ala	Gln	Leu	Val	Leu	Thr	Arg	Lys	Asp	Leu	Leu	Phe	1055	1060	1065
Gly	Ser	Ile	Val	Ala	Val	Asp	Glu	Pro	Thr	Arg	Pro	Ile	Tyr	Arg	1070	1075	1080
Phe	Thr	Gln	Glu	Asp	Leu	Arg	Lys	Arg	Arg	Val	Leu	Phe	Val	His	1085	1090	1095
Ser	Gly	Ala	Asp	Arg	Gly	Trp	Ile	Gln	Leu	Gln	Val	Ser	Asp	Gly	1100	1105	1110
Gln	His	Gln	Ala	Thr	Ala	Leu	Leu	Glu	Val	Gln	Ala	Ser	Glu	Pro	1115	1120	1125
Tyr	Leu	Arg	Val	Ala	Asn	Gly	Ser	Ser	Leu	Val	Val	Pro	Gln	Gly	1130	1135	1140
Gly	Gln	Gly	Thr	Ile	Asp	Thr	Ala	Val	Leu	His	Leu	Asp	Thr	Asn	1145	1150	1155
Leu	Asp	Ile	Arg	Ser	Gly	Asp	Glu	Val	His	Tyr	His	Val	Thr	Ala	1160	1165	1170
Gly	Pro	Arg	Trp	Gly	Gln	Leu	Val	Arg	Ala	Gly	Gln	Pro	Ala	Thr	1175	1180	1185
Ala	Phe	Ser	Gln	Gln	Asp	Leu	Leu	Asp	Gly	Ala	Val	Leu	Tyr	Ser	1190	1195	1200
His	Asn	Gly	Ser	Leu	Ser	Pro	Glu	Asp	Thr	Met	Ala	Phe	Ser	Val	1205	1210	1215
Glu	Ala	Gly	Pro	Val	His	Thr	Asp	Ala	Thr	Leu	Gln	Val	Thr	Ile	1220	1225	1230
Ala	Leu	Glu	Gly	Pro	Leu	Ala	Pro	Leu	Lys	Leu	Val	Arg	His	Lys	1235	1240	1245
Lys	Ile	Tyr	Val	Phe	Gln	Gly	Glu	Ala	Ala	Glu	Ile	Arg	Arg	Asp	1250	1255	1260
Gln	Leu	Glu	Ala	Ala	Gln	Glu	Ala	Val	Pro	Pro	Ala	Asp	Ile	Val	1265	1270	1275
Phe	Ser	Val	Lys	Ser	Pro	Pro	Ser	Ala	Gly	Tyr	Leu	Val	Met	Val	1280	1285	1290
Ser	Arg	Gly	Ala	Leu	Ala	Asp	Glu	Pro	Pro	Ser	Leu	Asp	Pro	Val	1295	1300	1305
Gln	Ser	Phe	Ser	Gln	Glu	Ala	Val	Asp	Thr	Gly	Arg	Val	Leu	Tyr	1310	1315	1320
Leu	His	Ser	Arg	Pro	Glu	Ala	Trp	Ser	Asp	Ala	Phe	Ser	Leu	Asp	1325	1330	1335
Val	Ala	Ser	Gly	Leu	Gly	Ala	Pro	Leu	Glu	Gly	Val	Leu	Val	Glu	1340	1345	1350
Leu	Glu	Val	Leu	Pro	Ala	Ala	Ile	Pro	Leu	Glu	Ala	Gln	Asn	Phe	1355	1360	1365

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Ser	Val	Pro	Glu	Gly	Gly	Ser	Leu	Thr	Leu	Ala	Pro	Pro	Leu	Leu	
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Arg	Val	Ser	Gly	Pro	Tyr	Phe	Pro	Thr	Leu	Leu	Gly	Leu	Ser	Leu	
			1385						1390					1395	
Gln	Val	Leu	Glu	Pro	Pro	Gln	His	Gly	Pro	Leu	Gln	Lys	Glu	Asp	
			1400						1405					1410	
Gly	Pro	Gln	Ala	Arg	Thr	Leu	Ser	Ala	Phe	Ser	Trp	Arg	Met	Val	
			1415						1420					1425	
Glu	Glu	Gln	Leu	Ile	Arg	Tyr	Val	His	Asp	Gly	Ser	Glu	Thr	Leu	
			1430						1435					1440	
Thr	Asp	Ser	Phe	Val	Leu	Met	Ala	Asn	Ala	Ser	Glu	Met	Asp	Arg	
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Gln	Ser	His	Pro	Val	Ala	Phe	Thr	Val	Thr	Val	Leu	Pro	Val	Asn	
			1460						1465					1470	
Asp	Gln	Pro	Pro	Ile	Leu	Thr	Thr	Asn	Thr	Gly	Leu	Gln	Met	Trp	
			1475						1480					1485	
Glu	Gly	Ala	Thr	Ala	Pro	Ile	Pro	Ala	Glu	Ala	Leu	Arg	Ser	Thr	
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Asp	Gly	Asp	Ser	Gly	Ser	Glu	Asp	Leu	Val	Tyr	Thr	Ile	Glu	Gln	
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Ala	Gln	Lys	Gln	Val	Leu	Leu	Ser	Leu	Lys	Gly	Ser	Gln	Thr	Leu	
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Pro	Phe	Trp	Glu	Ala	His	Asp	Thr	Leu	Glu	Leu	Gln	Leu	Ser	Ser	
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Pro	Pro	Ala	Arg	Asp	Val	Ala	Ala	Thr	Leu	Ala	Val	Ala	Val	Ser	
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Phe	Glu	Ala	Ala	Cys	Pro	Gln	Arg	Pro	Ser	His	Leu	Trp	Lys	Asn	
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Lys	Gly	Leu	Trp	Val	Pro	Glu	Gly	Gln	Arg	Ala	Arg	Ile	Thr	Val	
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Ala	Ala	Leu	Asp	Ala	Ser	Asn	Leu	Leu	Ala	Ser	Val	Pro	Ser	Pro	
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Gln	Arg	Ser	Glu	His	Asp	Val	Leu	Phe	Gln	Val	Thr	Gln	Phe	Pro	
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Ser	Arg	Gly	Gln	Leu	Leu	Val	Ser	Glu	Glu	Pro	Leu	His	Ala	Gly	
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Gln	Pro	His	Phe	Leu	Gln	Ser	Gln	Leu	Ala	Ala	Gly	Gln	Leu	Val	
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Glu Pro Ala Val Ala Lys Gly Gly Phe Leu Ser Phe Leu Glu Ala
2210 2215 2220
Asn Met Phe Ser Val Ile Ile Pro Met Cys Leu Val Leu Leu Leu
2225 2230 2235
Leu Ala Leu Ile Leu Pro Leu Leu Phe Tyr Leu Arg Lys Arg Asn
2240 2245 2250
Lys Thr Gly Lys His Asp Val Gln Val Leu Thr Ala Lys Pro Arg
2255 2260 2265
Asn Gly Leu Ala Gly Asp Thr Glu Thr Phe Arg Lys Val Glu Pro
2270 2275 2280
Gly Gln Ala Ile Pro Leu Thr Ala Val Pro Gly Gln Gly Pro Pro
2285 2290 2295
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His	Pro	Trp	Glu	Val	Ile	Val	Gly	Thr	Val	Thr	Leu	Thr	Ile	Cys
				20					25					30
Met	Met	Ser	Met	Asn	Met	Phe	Thr	Gly	Asn	Asn	Lys	Ile	Cys	Gly
				35					40					45
Trp	Asn	Tyr	Glu	Cys	Pro	Lys	Phe	Glu	Glu	Asp	Val	Leu	Ser	Ser
				50					55					60
Asp	Ile	Ile	Ile	Leu	Thr	Ile	Thr	Arg	Cys	Ile	Ala	Ile	Leu	Tyr
				65					70					75
Ile	Tyr	Phe	Gln	Phe	Gln	Asn	Leu	Arg	Gln	Leu	Gly	Ser	Lys	Tyr
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Ile	Leu	Gly	Ile	Ala	Gly	Leu	Phe	Thr	Ile	Phe	Ser	Ser	Phe	Val
				95					100					105
Phe	Ser	Thr	Val	Val	Ile	His	Phe	Leu	Asp	Lys	Glu	Leu	Thr	Gly
				110					115					120
Leu	Asn	Glu	Ala	Leu	Pro	Phe	Phe	Leu	Leu	Leu	Ile	Asp	Leu	Ser
				125					130					135
Arg	Ala	Ser	Thr	Leu	Ala	Lys	Phe	Ala	Leu	Ser	Ser	Asn	Ser	Gln
				140					145					150
Asp	Glu	Val	Arg	Glu	Asn	Ile	Ala	Arg	Gly	Met	Ala	Ile	Leu	Gly
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Pro	Thr	Phe	Thr	Leu	Asp	Ala	Leu	Val	Glu	Cys	Leu	Val	Ile	Gly
				170					175					180
Val	Gly	Thr	Met	Ser	Gly	Val	Arg	Gln	Leu	Glu	Ile	Met	Cys	Cys
				185					190					195
Phe	Gly	Cys	Met	Ser	Val	Leu	Ala	Asn	Tyr	Phe	Val	Phe	Met	Thr
				200					205					210
Phe	Phe	Pro	Ala	Cys	Val	Ser	Leu	Val	Leu	Glu	Leu	Ser	Arg	Glu
				215					220					225
Ser	Arg	Glu	Gly	Arg	Pro	Ile	Trp	Gln	Leu	Ser	His	Phe	Ala	Arg
				230					235					240
Val	Leu	Glu	Glu	Glu	Glu	Asn	Lys	Pro	Asn	Pro	Val	Thr	Gln	Arg
				245					250					255
Val	Lys	Met	Ile	Met	Ser	Leu	Gly	Leu	Val	Leu	Val	His	Ala	His
				260					265					270
Ser	Arg	Trp	Ile	Ala	Asp	Pro	Ser	Pro	Gln	Asn	Ser	Thr	Ala	Asp
				275					280					285
Thr	Ser	Lys	Val	Ser	Leu	Gly	Leu	Asp	Glu	Asn	Val	Ser	Lys	Arg
				290					295					300
Ile	Glu	Pro	Ser	Val	Ser	Leu	Trp	Gln	Phe	Tyr	Leu	Ser	Lys	Met
				305					310					315
Ile	Ser	Met	Asp	Ile	Glu	Gln	Val	Ile	Thr	Leu	Ser	Leu	Ala	Leu
				320					325					330
Leu	Leu	Ala	Val	Lys	Tyr	Ile	Phe	Phe	Glu	Gln	Thr	Glu	Thr	Glu
				335					340					345
Ser	Thr	Leu	Ser	Leu	Lys	Asn	Pro	Ile	Thr	Ser	Pro	Val	Val	Thr
				350					355					360
Gln	Lys	Lys	Val	Pro	Asp	Asn	Cys	Cys	Arg	Arg	Glu	Pro	Met	Leu
				365					370					375
Val	Arg	Asn	Asn	Gln	Lys	Cys	Asp	Ser	Val	Glu	Glu	Glu	Thr	Gly
				380					385					390
Ile	Asn	Arg	Glu	Arg	Lys	Val	Glu	Val	Ile	Lys	Pro	Leu	Val	Ala
				395					400					405
Glu	Thr	Asp	Thr	Pro	Asn	Arg	Ala	Thr	Phe	Val	Val	Gly	Asn	Ser

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425	430	435	
Ile Glu Leu Pro	Arg Glu Pro Arg Pro	Asn Glu Glu Cys Leu	Gln
440	445	450	
Ile Leu Gly Asn	Ala Glu Lys Gly Ala	Lys Phe Leu Ser Asp	Ala
455	460	465	
Glu Ile Ile Gln	Leu Val Asn Ala Lys	His Ile Pro Ala Tyr	Lys
470	475	480	
Leu Glu Thr Leu	Met Glu Thr His Glu	Arg Gly Val Ser Ile	Arg
485	490	495	
Arg Gln Leu Leu	Ser Lys Lys Leu Ser	Glu Pro Ser Ser Leu	Gln
500	505	510	
Tyr Leu Pro Tyr	Arg Asp Tyr Asn Tyr	Ser Leu Val Met Gly	Ala
515	520	525	
Cys Cys Glu Asn	Val Ile Gly Tyr Met	Pro Ile Pro Val Gly	Val
530	535	540	
Ala Gly Pro Leu	Cys Leu Asp Glu Lys	Glu Phe Gln Val Pro	Met
545	550	555	
Ala Thr Thr Glu	Gly Cys Leu Val Ala	Ser Thr Asn Arg Gly	Cys
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Arg Ala Ile Gly	Leu Gly Gly Gly Ala	Ser Ser Arg Val Leu	Ala
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 aggcaaatca tccgaaccgg tggctcatcat gaagagaagt ttgaggactt ctgcaaaaag 9300

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tttgtcataa attacaagtg aattctgtaa gtaaggctgt cagtctgctt aagggaagaa 10020
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<221> misc_feature

<223> Incyte ID No: 2700132CD1

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Asp Gly Pro His Phe Pro Leu Ser Leu Ser Thr Cys Leu Phe Gly
                20                25                30
Arg Gly Ile Glu Cys Asp Ile Arg Ile Gln Leu Pro Val Val Ser
                35                40                45
Lys Gln His Cys Lys Ile Glu Ile His Glu Gln Glu Ala Ile Leu
                50                55                60
His Asn Phe Ser Ser Thr Asn Pro Thr Gln Val Asn Gly Ser Val
                65                70                75
Ile Asp Glu Pro Val Arg Leu Lys His Gly Asp Val Ile Thr Ile
                80                85                90
Ile Asp Arg Ser Phe Arg Tyr Glu Asn Glu Ser Leu Gln Ser Gly
                95                100               105
Arg Lys Ser Thr Glu Phe Pro Arg Lys Ile Arg Glu Gln Glu Pro
                110               115               120
Ala Arg Arg Val Ser Arg Ser Ser Phe Ser Ser Asp Pro Asp Glu
                125               130               135
Lys Ala Gln Asp Ser Lys Ala Tyr Ser Lys Ile Thr Glu Gly Lys
                140               145               150
Val Ser Gly Asn Pro Gln Val His Ile Lys Asn Val Lys Glu Asp
                155               160               165
Ser Thr Ala Asp Asp Ser Lys Asp Ser Val Ala Gln Gly Thr Thr
                170               175               180
Asn Val His Ser Ser Glu His Ala Gly Arg Asn Gly Arg Asn Ala
                185               190               195
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Ala	Asp	Pro	Ile	Ser	Gly	Asp	Phe	Lys	Glu	Ile	Ser	Ser	Val	Lys	200	205	210
Leu	Val	Ser	Arg	Tyr	Gly	Glu	Leu	Lys	Ser	Val	Pro	Thr	Thr	Gln	215	220	225
Cys	Leu	Asp	Asn	Ser	Lys	Lys	Asn	Glu	Ser	Pro	Phe	Trp	Lys	Leu	230	235	240
Tyr	Glu	Ser	Val	Lys	Lys	Glu	Leu	Asp	Val	Lys	Ser	Gln	Lys	Glu	245	250	255
Asn	Val	Leu	Gln	Tyr	Cys	Arg	Lys	Ser	Gly	Leu	Gln	Thr	Asp	Tyr	260	265	270
Ala	Thr	Glu	Lys	Glu	Ser	Ala	Asp	Gly	Leu	Gln	Gly	Glu	Thr	Gln	275	280	285
Leu	Leu	Val	Ser	Arg	Lys	Ser	Arg	Pro	Lys	Ser	Gly	Gly	Ser	Gly	290	295	300
His	Ala	Val	Ala	Glu	Pro	Ala	Ser	Pro	Glu	Gln	Glu	Leu	Asp	Gln	305	310	315
Asn	Lys	Gly	Lys	Gly	Arg	Asp	Val	Glu	Ser	Val	Gln	Thr	Pro	Ser	320	325	330
Lys	Ala	Val	Gly	Ala	Ser	Phe	Pro	Leu	Tyr	Glu	Pro	Ala	Lys	Met	335	340	345
Lys	Thr	Pro	Val	Gln	Tyr	Ser	Gln	Gln	Gln	Asn	Ser	Pro	Gln	Lys	350	355	360
His	Lys	Asn	Lys	Asp	Leu	Tyr	Thr	Thr	Gly	Arg	Arg	Glu	Ser	Val	365	370	375
Asn	Leu	Gly	Lys	Ser	Glu	Gly	Phe	Lys	Ala	Gly	Asp	Lys	Thr	Leu	380	385	390
Thr	Pro	Arg	Lys	Leu	Ser	Thr	Arg	Asn	Arg	Thr	Pro	Ala	Lys	Val	395	400	405
Glu	Asp	Ala	Ala	Asp	Ser	Ala	Thr	Lys	Pro	Glu	Asn	Leu	Ser	Ser	410	415	420
Lys	Thr	Arg	Gly	Ser	Ile	Pro	Thr	Asp	Val	Glu	Val	Leu	Pro	Thr	425	430	435
Glu	Thr	Glu	Ile	His	Asn	Glu	Pro	Phe	Leu	Thr	Leu	Trp	Leu	Thr	440	445	450
Gln	Val	Glu	Arg	Lys	Ile	Gln	Lys	Asp	Ser	Leu	Ser	Lys	Pro	Glu	455	460	465
Lys	Leu	Gly	Thr	Thr	Ala	Gly	Gln	Met	Cys	Ser	Gly	Leu	Pro	Gly	470	475	480
Leu	Ser	Ser	Val	Asp	Ile	Asn	Asn	Phe	Gly	Asp	Ser	Ile	Asn	Glu	485	490	495
Ser	Glu	Gly	Ile	Pro	Leu	Lys	Arg	Arg	Arg	Val	Ser	Phe	Gly	Gly	500	505	510
His	Leu	Arg	Pro	Glu	Leu	Phe	Asp	Glu	Asn	Leu	Pro	Pro	Asn	Thr	515	520	525
Pro	Leu	Lys	Arg	Gly	Glu	Ala	Pro	Thr	Lys	Arg	Lys	Ser	Leu	Val	530	535	540
Met	His	Thr	Pro	Pro	Val	Leu	Lys	Lys	Ile	Ile	Lys	Glu	Gln	Pro	545	550	555
Gln	Pro	Ser	Gly	Lys	Gln	Glu	Ser	Gly	Ser	Glu	Ile	His	Val	Glu	560	565	570
Val	Lys	Ala	Gln	Ser	Leu	Val	Ile	Ser	Pro	Pro	Ala	Pro	Ser	Pro	575	580	585
Arg	Lys	Thr	Pro	Val	Ala	Ser	Asp	Gln	Arg	Arg	Arg	Ser	Cys	Lys	590	595	600
Thr	Ala	Pro	Ala	Ser	Ser	Ser	Lys	Ser	Gln	Thr	Glu	Val	Pro	Lys	605	610	615

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Arg Gly Gly Glu	Arg Val Ala Thr Cys	Leu Gln Lys Arg Val	Ser
620	625		630
Ile Ser Arg Ser	Gln His Asp Ile Leu	Gln Met Ile Cys Ser	Lys
635	640		645
Arg Arg Ser Gly	Ala Ser Glu Ala Asn	Leu Ile Val Ala Lys	Ser
650	655		660
Trp Ala Asp Val	Val Lys Leu Gly Ala	Lys Gln Thr Gln Thr	Lys
665	670		675
Val Ile Lys His	Gly Pro Gln Arg Ser	Met Asn Lys Arg Gln	Arg
680	685		690
Arg Pro Ala Thr	Pro Lys Lys Pro Val	Gly Glu Val His Ser	Gln
695	700		705
Phe Ser Thr Gly	His Ala Asn Ser Pro	Cys Thr Ile Ile Ile	Gly
710	715		720
Lys Ala His Thr	Glu Lys Val His Val	Pro Ala Arg Pro Tyr	Arg
725	730		735
Val Leu Asn Asn	Phe Ile Ser Asn Gln	Lys Met Asp Phe Lys	Glu
740	745		750
Asp Leu Ser Gly	Ile Ala Glu Met Phe	Lys Thr Pro Val Lys	Glu
755	760		765
Gln Pro Gln Leu	Thr Ser Thr Cys His	Ile Ala Ile Ser Asn	Ser
770	775		780
Glu Asn Leu Leu	Gly Lys Gln Phe Gln	Gly Thr Asp Ser Gly	Glu
785	790		795
Glu Pro Leu Leu	Pro Thr Ser Glu Ser	Phe Gly Gly Asn Val	Phe
800	805		810
Phe Ser Ala Gln	Asn Ala Ala Lys Gln	Pro Ser Asp Lys Cys	Ser
815	820		825
Ala Ser Pro Pro	Leu Arg Arg Gln Cys	Ile Arg Glu Asn Gly	Asn
830	835		840
Val Ala Lys Thr	Pro Arg Asn Thr Tyr	Lys Met Thr Ser Leu	Glu
845	850		855
Thr Lys Thr Ser	Asp Thr Glu Thr Glu	Pro Ser Lys Thr Val	Ser
860	865		870
Thr Val Asn Arg	Ser Gly Arg Ser Thr	Glu Phe Arg Asn Ile	Gln
875	880		885
Lys Leu Pro Val	Glu Ser Lys Ser Glu	Glu Thr Asn Thr Glu	Ile
890	895		900
Val Glu Cys Ile	Leu Lys Arg Gly Gln	Lys Ala Thr Leu Leu	Gln
905	910		915
Gln Arg Arg Glu	Gly Glu Met Lys Glu	Ile Glu Arg Pro Phe	Glu
920	925		930
Thr Tyr Lys Glu	Asn Ile Glu Leu Lys	Glu Asn Asp Glu Lys	Met
935	940		945
Lys Ala Met Lys	Arg Ser Arg Thr Trp	Gly Gln Lys Cys Ala	Pro
950	955		960
Met Ser Asp Leu	Thr Asp Leu Lys Ser	Leu Pro Asp Thr Glu	Leu
965	970		975
Met Lys Asp Thr	Ala Arg Gly Gln Asn	Leu Leu Gln Thr Gln	Asp
980	985		990
His Ala Lys Ala	Pro Lys Ser Glu Lys	Gly Lys Ile Thr Lys	Met
995	1000		1005
Pro Cys Gln Ser	Leu Gln Pro Glu Pro	Ile Asn Thr Pro Thr	His
1010	1015		1020
Thr Lys Gln Gln	Leu Lys Ala Ser Leu	Gly Lys Val Gly Val	Lys
1025	1030		1035

[illegible]

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Lys Thr Lys Glu Lys Ala Gln Pro Leu Glu Asp Leu Ala Gly Trp
1460 1465 1470
Lys Glu Leu Phe Gln Thr Pro Val Cys Thr Asp Lys Pro Thr Thr
1475 1480 1485
His Glu Lys Thr Thr Lys Ile Ala Cys Arg Ser Gln Pro Asp Pro
1490 1495 1500
Val Asp Thr Pro Thr Ser Ser Lys Pro Gln Ser Lys Arg Ser Leu
1505 1510 1515
Arg Lys Val Asp Val Glu Glu Glu Phe Phe Ala Leu Arg Lys Arg
1520 1525 1530
Thr Pro Ser Ala Gly Lys Ala Met His Thr Pro Lys Pro Ala Val
1535 1540 1545
Ser Gly Glu Lys Asn Ile Tyr Ala Phe Met Gly Thr Pro Val Gln
1550 1555 1560
Lys Leu Asp Leu Thr Glu Asn Leu Thr Gly Ser Lys Arg Arg Leu
1565 1570 1575
Gln Thr Pro Lys Glu Lys Ala Gln Ala Leu Glu Asp Leu Ala Gly
1580 1585 1590
Phe Lys Glu Leu Phe Gln Thr Arg Gly His Thr Glu Glu Ser Met
1595 1600 1605
Thr Asn Asp Lys Thr Ala Lys Val Ala Cys Lys Ser Ser Gln Pro
1610 1615 1620
Asp Leu Asp Lys Asn Pro Ala Ser Ser Lys Arg Arg Leu Lys Thr
1625 1630 1635
Ser Leu Gly Lys Val Gly Val Lys Glu Glu Leu Leu Ala Val Gly
1640 1645 1650
Lys Leu Thr Gln Thr Ser Gly Glu Thr Thr His Thr His Thr Glu
1655 1660 1665
Pro Thr Gly Asp Gly Lys Ser Met Lys Ala Phe Met Glu Ser Pro
1670 1675 1680
Lys Gln Ile Leu Asp Ser Ala Ala Ser Leu Thr Gly Ser Lys Arg
1685 1690 1695
Gln Leu Arg Thr Pro Lys Gly Lys Ser Glu Val Pro Glu Asp Leu
1700 1705 1710
Ala Gly Phe Ile Glu Leu Phe Gln Thr Pro Ser His Thr Lys Glu
1715 1720 1725
Ser Met Thr Asn Glu Lys Thr Thr Lys Val Ser Tyr Arg Ala Ser
1730 1735 1740
Gln Pro Asp Leu Val Asp Thr Pro Thr Ser Ser Lys Pro Gln Pro
1745 1750 1755
Lys Arg Ser Leu Arg Lys Ala Asp Thr Glu Glu Glu Phe Leu Ala
1760 1765 1770
Phe Arg Lys Gln Thr Pro Ser Ala Gly Lys Ala Met His Thr Pro
1775 1780 1785
Lys Pro Ala Val Gly Glu Glu Lys Asp Ile Asn Thr Phe Leu Gly
1790 1795 1800
Thr Pro Val Gln Lys Leu Asp Gln Pro Gly Asn Leu Pro Gly Ser
1805 1810 1815
Asn Arg Arg Leu Gln Thr Arg Lys Glu Lys Ala Gln Ala Leu Glu
1820 1825 1830
Glu Leu Thr Gly Phe Arg Glu Leu Phe Gln Thr Pro Cys Thr Asp
1835 1840 1845
Asn Pro Thr Thr Asp Glu Lys Thr Thr Lys Lys Ile Leu Cys Lys
1850 1855 1860
Ser Pro Gln Ser Asp Pro Ala Asp Thr Pro Thr Asn Thr Lys Gln
1865 1870 1875

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Arg	Pro	Lys	Arg	Ser	Leu	Lys	Lys	Ala	Asp	Val	Glu	Glu	Glu	Phe
					1880				1885					1890
Leu	Ala	Phe	Arg	Lys	Leu	Thr	Pro	Ser	Ala	Gly	Lys	Ala	Met	His
					1895				1900					1905
Thr	Pro	Lys	Ala	Ala	Val	Gly	Glu	Glu	Lys	Asp	Ile	Asn	Thr	Phe
					1910				1915					1920
Val	Gly	Thr	Pro	Val	Glu	Lys	Leu	Asp	Leu	Leu	Gly	Asn	Leu	Pro
					1925				1930					1935
Gly	Ser	Lys	Arg	Arg	Pro	Gln	Thr	Pro	Lys	Glu	Lys	Ala	Lys	Ala
					1940				1945					1950
Leu	Glu	Asp	Leu	Ala	Gly	Phe	Lys	Glu	Leu	Phe	Gln	Thr	Pro	Gly
					1955				1960					1965
His	Thr	Glu	Glu	Ser	Met	Thr	Asp	Asp	Lys	Ile	Thr	Glu	Val	Ser
					1970				1975					1980
Cys	Lys	Ser	Pro	Gln	Pro	Asp	Pro	Val	Lys	Thr	Pro	Thr	Ser	Ser
					1985				1990					1995
Lys	Gln	Arg	Leu	Lys	Ile	Ser	Leu	Gly	Lys	Val	Gly	Val	Lys	Glu
					2000				2005					2010
Glu	Val	Leu	Pro	Val	Gly	Lys	Leu	Thr	Gln	Thr	Ser	Gly	Lys	Thr
					2015				2020					2025
Thr	Gln	Thr	His	Arg	Glu	Thr	Ala	Gly	Asp	Gly	Lys	Ser	Ile	Lys
					2030				2035					2040
Ala	Phe	Lys	Glu	Ser	Ala	Lys	Gln	Met	Leu	Asp	Pro	Ala	Asn	Tyr
					2045				2050					2055
Gly	Thr	Gly	Met	Glu	Arg	Trp	Pro	Arg	Thr	Pro	Lys	Glu	Glu	Ala
					2060				2065					2070
Gln	Ser	Leu	Glu	Asp	Leu	Ala	Gly	Phe	Lys	Glu	Leu	Phe	Gln	Thr
					2075				2080					2085
Pro	Asp	His	Thr	Glu	Glu	Ser	Thr	Thr	Asp	Asp	Lys	Thr	Thr	Lys
					2090				2095					2100
Ile	Ala	Cys	Lys	Ser	Pro	Pro	Pro	Glu	Ser	Met	Asp	Thr	Pro	Thr
					2105				2110					2115
Ser	Thr	Arg	Arg	Arg	Pro	Lys	Thr	Pro	Leu	Gly	Lys	Arg	Asp	Ile
					2120				2125					2130
Val	Glu	Glu	Leu	Ser	Ala	Leu	Lys	Gln	Leu	Thr	Gln	Thr	Thr	His
					2135				2140					2145
Thr	Asp	Lys	Val	Pro	Gly	Asp	Glu	Asp	Lys	Gly	Ile	Asn	Val	Phe
					2150				2155					2160
Arg	Glu	Thr	Ala	Lys	Gln	Lys	Leu	Asp	Pro	Ala	Ala	Ser	Val	Thr
					2165				2170					2175
Gly	Ser	Lys	Arg	Gln	Pro	Arg	Thr	Pro	Lys	Gly	Lys	Ala	Gln	Pro
					2180				2185					2190
Leu	Glu	Asp	Leu	Ala	Gly	Leu	Lys	Glu	Leu	Phe	Gln	Thr	Pro	Ile
					2195				2200					2205
Cys	Thr	Asp	Lys	Pro	Thr	Thr	His	Glu	Lys	Thr	Thr	Lys	Ile	Ala
					2210				2215					2220
Cys	Arg	Ser	Pro	Gln	Pro	Asp	Pro	Val	Gly	Thr	Pro	Thr	Ile	Phe
					2225				2230					2235
Lys	Pro	Gln	Ser	Lys	Arg	Ser	Leu	Arg	Lys	Ala	Asp	Val	Glu	Glu
					2240				2245					2250
Glu	Ser	Leu	Ala	Leu	Arg	Lys	Arg	Thr	Pro	Ser	Val	Gly	Lys	Ala
					2255				2260					2265
Met	Asp	Thr	Pro	Lys	Pro	Ala	Gly	Gly	Asp	Glu	Lys	Asp	Met	Lys
					2270				2275					2280
Ala	Phe	Met	Gly	Thr	Pro	Val	Gln	Lys	Leu	Asp	Leu	Pro	Gly	Asn
					2285				2290					2295

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Leu	Pro	Gly	Ser	Lys	Arg	Trp	Pro	Gln	Thr	Pro	Lys	Glu	Lys	Ala	
				2300					2305					2310	
Gln	Ala	Leu	Glu	Asp	Leu	Ala	Gly	Phe	Lys	Glu	Leu	Phe	Gln	Thr	
				2315					2320					2325	
Pro	Gly	Thr	Asp	Lys	Pro	Thr	Thr	Asp	Glu	Lys	Thr	Thr	Lys	Ile	
				2330					2335					2340	
Ala	Cys	Lys	Ser	Pro	Gln	Pro	Asp	Pro	Val	Asp	Thr	Pro	Ala	Ser	
				2345					2350					2355	
Thr	Lys	Gln	Arg	Pro	Lys	Arg	Asn	Leu	Arg	Lys	Ala	Asp	Val	Glu	
				2360					2365					2370	
Glu	Glu	Phe	Leu	Ala	Leu	Arg	Lys	Arg	Thr	Pro	Ser	Ala	Gly	Lys	
				2375					2380					2385	
Ala	Met	Asp	Thr	Pro	Lys	Pro	Ala	Val	Ser	Asp	Glu	Lys	Asn	Ile	
				2390					2395					2400	
Asn	Thr	Phe	Val	Glu	Thr	Pro	Val	Gln	Lys	Leu	Asp	Leu	Leu	Gly	
				2405					2410					2415	
Asn	Leu	Pro	Gly	Ser	Lys	Arg	Gln	Pro	Gln	Thr	Pro	Lys	Glu	Lys	
				2420					2425					2430	
Ala	Glu	Ala	Leu	Glu	Asp	Leu	Val	Gly	Phe	Lys	Glu	Leu	Phe	Gln	
				2435					2440					2445	
Thr	Pro	Gly	His	Thr	Glu	Glu	Ser	Met	Thr	Asp	Asp	Lys	Ile	Thr	
				2450					2455					2460	
Glu	Val	Ser	Cys	Lys	Ser	Pro	Gln	Pro	Glu	Ser	Phe	Lys	Thr	Ser	
				2465					2470					2475	
Arg	Ser	Ser	Lys	Gln	Arg	Leu	Lys	Ile	Pro	Leu	Val	Lys	Val	Asp	
				2480					2485					2490	
Met	Lys	Glu	Glu	Pro	Leu	Ala	Val	Ser	Lys	Leu	Thr	Arg	Thr	Ser	
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Gly	Glu	Thr	Thr	Gln	Thr	His	Thr	Glu	Pro	Thr	Gly	Asp	Ser	Lys	
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Ser	Ile	Lys	Ala	Phe	Lys	Glu	Ser	Pro	Lys	Gln	Ile	Leu	Asp	Pro	
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Ala	Ala	Ser	Val	Thr	Gly	Ser	Arg	Arg	Gln	Leu	Arg	Thr	Arg	Lys	
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Glu	Lys	Ala	Arg	Ala	Leu	Glu	Asp	Leu	Val	Asp	Phe	Lys	Glu	Leu	
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Phe	Ser	Ala	Pro	Gly	His	Thr	Glu	Glu	Ser	Met	Thr	Ile	Asp	Lys	
				2570					2575					2580	
Asn	Thr	Lys	Ile	Pro	Cys	Lys	Ser	Pro	Pro	Pro	Glu	Leu	Thr	Asp	
				2585					2590					2595	
Thr	Ala	Thr	Ser	Thr	Lys	Arg	Cys	Pro	Lys	Thr	Arg	Leu	Arg	Lys	
				2600					2605					2610	
Glu	Val	Lys	Glu	Glu	Leu	Ser	Ala	Val	Glu	Arg	Leu	Thr	Gln	Thr	
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Ser	Gly	Gln	Ser	Thr	His	Thr	His	Lys	Glu	Pro	Ala	Ser	Gly	Asp	
				2630					2635					2640	
Glu	Gly	Ile	Lys	Val	Leu	Lys	Gln	Arg	Ala	Lys	Lys	Lys	Pro	Asn	
				2645					2650					2655	
Pro	Val	Glu	Glu	Glu	Pro	Ser	Arg	Arg	Arg	Pro	Arg	Ala	Pro	Lys	
				2660					2665					2670	
Glu	Lys	Ala	Gln	Pro	Leu	Glu	Asp	Leu	Ala	Gly	Phe	Thr	Glu	Leu	
				2675					2680					2685	
Ser	Glu	Thr	Ser	Gly	His	Thr	Gln	Glu	Ser	Leu	Thr	Ala	Gly	Lys	
				2690					2695					2700	
Ala	Thr	Lys	Ile	Pro	Cys	Glu	Ser	Pro	Pro	Leu	Glu	Val	Val	Asp	
				2705					2710					2715	

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Thr Thr Ala Ser Thr Lys Arg His Leu Arg Thr Arg Val Gln Lys	2720	2725	2730
Val Gln Val Lys Glu Glu Pro Ser Ala Val Lys Phe Thr Gln Thr	2735	2740	2745
Ser Gly Glu Thr Thr Asp Ala Asp Lys Glu Pro Ala Gly Glu Asp	2750	2755	2760
Lys Gly Ile Lys Ala Leu Lys Glu Ser Ala Lys Gln Thr Pro Ala	2765	2770	2775
Pro Ala Ala Ser Val Thr Gly Ser Arg Arg Arg Pro Arg Ala Pro	2780	2785	2790
Arg Glu Ser Ala Gln Ala Ile Glu Asp Leu Ala Gly Phe Lys Asp	2795	2800	2805
Pro Ala Ala Gly His Thr Glu Glu Ser Met Thr Asp Asp Lys Thr	2810	2815	2820
Thr Lys Ile Pro Cys Lys Ser Ser Pro Glu Leu Glu Asp Thr Ala	2825	2830	2835
Thr Ser Ser Lys Arg Arg Pro Arg Thr Arg Ala Gln Lys Val Glu	2840	2845	2850
Val Lys Glu Glu Leu Leu Ala Val Gly Lys Leu Thr Gln Thr Ser	2855	2860	2865
Gly Glu Thr Thr His Thr Asp Lys Glu Pro Val Gly Glu Gly Lys	2870	2875	2880
Gly Thr Lys Ala Phe Lys Gln Pro Ala Lys Arg Lys Leu Asp Ala	2885	2890	2895
Glu Asp Val Ile Gly Ser Arg Arg Gln Pro Arg Ala Pro Lys Glu	2900	2905	2910
Lys Ala Gln Pro Leu Glu Asp Leu Ala Ser Phe Gln Glu Leu Ser	2915	2920	2925
Gln Thr Pro Gly His Thr Glu Glu Leu Ala Asn Gly Ala Ala Asp	2930	2935	2940
Ser Phe Thr Ser Ala Pro Lys Gln Thr Pro Asp Ser Gly Lys Pro	2945	2950	2955
Leu Lys Ile Ser Arg Arg Val Leu Arg Ala Pro Lys Val Glu Pro	2960	2965	2970
Val Gly Asp Val Val Ser Thr Arg Asp Pro Val Lys Ser Gln Ser	2975	2980	2985
Lys Ser Asn Thr Ser Leu Pro Pro Leu Pro Phe Lys Arg Gly Gly	2990	2995	3000
Gly Lys Asp Gly Ser Val Thr Gly Thr Lys Arg Leu Arg Cys Met	3005	3010	3015
Pro Ala Pro Glu Glu Ile Val Glu Glu Leu Pro Ala Ser Lys Lys	3020	3025	3030
Gln Arg Val Ala Pro Arg Ala Arg Gly Lys Ser Ser Glu Pro Val	3035	3040	3045
Val Ile Met Lys Arg Ser Leu Arg Thr Ser Ala Lys Arg Ile Glu	3050	3055	3060
Pro Ala Glu Glu Leu Asn Ser Asn Asp Met Lys Thr Asn Lys Glu	3065	3070	3075
Glu His Lys Leu Gln Asp Ser Val Pro Glu Asn Lys Gly Ile Ser	3080	3085	3090
Leu Arg Ser Arg Arg Gln Asn Lys Thr Glu Ala Glu Gln Gln Ile	3095	3100	3105
Thr Glu Val Phe Val Leu Ala Glu Arg Ile Glu Ile Asn Arg Asn	3110	3115	3120
Glu Lys Lys Pro Met Lys Thr Ser Pro Glu Met Asp Ile Gln Asn	3125	3130	3135

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Pro Asp Asp Gly Ala Arg Lys Pro Ile Pro Arg Asp Lys Val Thr
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3155 3160 3165
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3185 3190 3195
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<212> DNA
<213> Homo sapiens

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<210> 23

<211> 110

<212> DNA

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<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 238349.4c

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<211> 1228

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 402917.3c

<400> 24

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<210> 25

<211> 1216

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 406330.1

<400> 25

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agatctcctg tgcacctgac tttggagacg atgctttagg taaaaagctt aaacattgcc 240
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<210> 26

<211> 935

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 2516070CB1

<400> 26

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<210> 27

<211> 267

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2516070CD1

<400> 27

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20	25		30
Pro Trp Asp Arg Val Lys Asp Leu Ala Thr Val Tyr Val Asp Val			
35	40		45
Leu Lys Asp Ser Gly Arg Asp Tyr Val Ser Gln Phe Glu Gly Ser			
50	55		60
Ala Leu Gly Lys Gln Leu Asn Leu Lys Leu Leu Asp Asn Trp Asp			
65	70		75
Ser Val Thr Ser Thr Phe Ser Lys Leu Arg Glu Gln Leu Gly Pro			
80	85		90
Val Thr Gln Glu Phe Trp Asp Asn Leu Glu Lys Glu Thr Glu Gly			
95	100		105
Leu Arg Gln Glu Met Ser Lys Asp Leu Glu Glu Val Lys Ala Lys			
110	115		120
Val Gln Pro Tyr Leu Asp Asp Phe Gln Lys Lys Trp Gln Glu Glu			
125	130		135
Met Glu Leu Tyr Arg Gln Lys Val Glu Pro Leu Arg Ala Glu Leu			
140	145		150
Gln Glu Gly Ala Arg Gln Lys Leu His Glu Leu Gln Glu Lys Leu			
155	160		165
Ser Pro Leu Gly Glu Glu Met Arg Asp Arg Ala Arg Ala His Val			
170	175		180
Ala Arg Val Arg Thr His Leu Ala Pro Tyr Ser Asp Glu Leu Arg			
185	190		195
Gln Arg Leu Ala Ala Arg Leu Glu Ala Leu Lys Glu Asn Gly Gly			
200	205		210
Ala Arg Leu Ala Glu Tyr His Ala Lys Ala Thr Glu His Leu Ser			
215	220		225
Thr Leu Ser Glu Lys Ala Lys Pro Ala Leu Glu Asp Leu Arg Gln			
230	235		240
Gly Leu Leu Pro Val Leu Glu Ser Phe Lys Val Ser Phe Leu Ser			
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<210> 28

<211> 1656

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 167507CB1

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<210> 29

<211> 427

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 167507CD1

<400> 29

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  20          25          30
Lys Asp Leu Phe Lys Ala Val Asp Ala Ala Leu Lys Lys Tyr Asn
  35          40          45
Ser Gln Asn Gln Ser Asn Asn Gln Phe Val Leu Tyr Arg Ile Thr
  50          55          60
Glu Ala Thr Lys Thr Val Gly Ser Asp Thr Phe Tyr Ser Phe Lys
  65          70          75
Tyr Glu Ile Lys Glu Gly Asp Cys Pro Val Gln Ser Gly Lys Thr
  80          85          90
Trp Gln Asp Cys Glu Tyr Lys Asp Ala Ala Lys Ala Ala Thr Gly
  95          100         105
Glu Cys Thr Ala Thr Val Gly Lys Arg Ser Ser Thr Lys Phe Ser
  110         115         120
Val Ala Thr Gln Thr Cys Gln Ile Thr Pro Ala Glu Gly Pro Val
  125         130         135
Val Thr Ala Gln Tyr Asp Cys Leu Gly Cys Val His Pro Ile Ser
  140         145         150
Thr Gln Ser Pro Asp Leu Glu Pro Ile Leu Arg His Gly Ile Gln
  155         160         165
Tyr Phe Asn Asn Asn Thr Gln His Ser Ser Leu Phe Met Leu Asn
  170         175         180
Glu Val Lys Arg Ala Gln Arg Gln Val Val Ala Gly Leu Asn Phe
  185         190         195
Arg Ile Thr Tyr Ser Ile Val Gln Thr Asn Cys Ser Lys Glu Asn
  200         205         210

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Thr Gly Glu Cys Thr Asp Asn Ala Tyr Ile Asp Ile Gln Leu Arg
230 235 240
Ile Ala Ser Phe Ser Gln Asn Cys Asp Ile Tyr Pro Gly Lys Asp
245 250 255
Phe Val Gln Pro Thr Lys Ile Cys Val Gly Cys Pro Arg Asp
260 265 270
Ile Pro Thr Asn Ser Pro Glu Leu Glu Glu Thr Leu Thr His Thr
275 280 285
Ile Thr Lys Leu Asn Ala Glu Asn Asn Ala Thr Phe Tyr Phe Lys
290 295 300
Ile Asp Asn Val Lys Lys Ala Arg Val Gln Val Val Ala Gly Lys
305 310 315
Lys Tyr Phe Ile Asp Phe Val Ala Arg Glu Thr Thr Cys Ser Lys
320 325 330
Glu Ser Asn Glu Glu Leu Thr Glu Ser Cys Glu Thr Lys Lys Leu
335 340 345
Gly Gln Ser Leu Asp Cys Asn Ala Glu Val Tyr Val Val Pro Trp
350 355 360
Glu Lys Lys Ile Tyr Pro Thr Val Asn Cys Gln Pro Leu Gly Met
365 370 375
Ile Ser Leu Met Lys Arg Pro Pro Gly Phe Ser Pro Phe Arg Ser
380 385 390
Ser Arg Ile Gly Glu Ile Lys Glu Glu Thr Thr Ser His Leu Arg
395 400 405
Ser Cys Glu Tyr Lys Gly Arg Pro Pro Lys Ala Gly Ala Glu Pro
410 415 420
Ala Ser Glu Arg Glu Val Ser
425

<210> 30

<211> 617

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3860413CB1

<400> 30

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tgctttccaa ctgcctgact gcttgctcgt ctcaactggg tgagctccag catccccctt 180
gctataaaca ctgcttgccg cgtgcactc caccacgcct cctccaagtc ccagcgaacc 240
cgcggtgcaac ctgtcccgac tctagccgcc tcttcagctc gccatggatc ccaactgctc 300
ctgcgcggcc ggtgactcct gcacctgcgc cggctcctgc aaatgcaaag agtgcaaattg 360
cacctcctgc aagaaaagct gctgctcctg ctgccctgtg ggctgtgcca agtggtgcca 420
gggctgcatc tgcaaagggg cgtcggacaa gtgcagctgc tgcgcctgat gctgggacag 480
ccccgctccc agatgtaaag aacgcgactt ccacaaacct ggatttttta tgtacaacct 540
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<210> 31

<211> 61

<212> PRT

<213> Homo sapiens

PA-0035 US

<220>

<221> misc_feature

<223> Incyte ID No: 3860413CD1

<400> 31

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Ala	Gly	Ser	Cys	Lys	Cys	Lys	Glu	Cys	Lys	Cys	Thr	Ser	Cys	Lys
			20						25					30
Lys	Ser	Cys	Cys	Ser	Cys	Cys	Pro	Val	Gly	Cys	Ala	Lys	Cys	Ala
			35						40					45
Gln	Gly	Cys	Ile	Cys	Lys	Gly	Ala	Ser	Asp	Lys	Cys	Ser	Cys	Cys
			50						55					60

Ala

<210> 32

<211> 1629

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3393861CB1

<400> 32

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ccgtgggtcat	cgacccttg	acaagaagag	agaagaggct	cccagcctga	ggcctgcccc	180
accgcccata	agtggagggtg	gctatcgggc	tcgtccagcc	aaggcagctg	ccactcaaaa	240
gaaagtagaa	agaaaagccc	ctgatgctgg	aggctgtctt	cacgctgacc	cagacctggg	300
ggtgttgtgt	cctacaggat	gtcagttgca	agaggctttg	ctacaacagg	aaaggccaat	360
cagaaatagt	gttgatgagt	taaataacaa	tgtggaaget	gtttcccaga	cctcctcttc	420
ttcctttcag	tacatgtatt	tgctgaaaga	cctgtggcaa	aagaggcaga	agcaagtaaa	480
agataatgaa	aatgtagtca	atgagtactc	ctcagaactg	gaaaagcacc	aattatatat	540
agatgagact	gtgaatagca	atatcccaac	taaccttcgt	gtgcttcgtt	caatcctgga	600
aaacctgaga	agcaaaatac	aaaagttaga	atctgatgtc	tcagctcaaa	tggaatattg	660
tcgcacccca	tgcaactgtca	gttgcaatat	tcctgtgggtg	tctggcaaag	aatgtgagga	720
aattatcagg	aaaggagggtg	aaacatctga	aatgtatctc	attcaacctg	acagttctgt	780
caaaccgtat	agagtatact	gtgacatgaa	tacagaaaat	ggaggatgga	cagtgattca	840
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gcttggaat	gataaaatta	gccagcttac	caggatggga	cccacagaac	ttttgataga	1020
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tgaagccaac	aaataccaga	tctcagtga	caaatataga	ggaacagccg	gtaatgccct	1140
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gttcttcagc	acgtatgaca	gagacaatga	cggctgggta	acatcagatc	ccagaaaaca	1260
gtgttctaaa	gaagacgggtg	gtggatgggtg	gtataataga	tgatcatgcag	ccaatccaaa	1320
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tggtgtagta	tggtatgaatt	ggaaggggtc	atgggtactca	atgaagaaga	tgagtatgaa	1440
gatcaggccc	ttcttccac	agcaatagtc	cccaatacgt	agattttttgc	tcttctgtat	1500
gtgacaacat	ttttgtacat	tatgttattg	gaattttctt	tcatacatta	tattcctcta	1560
aaactctcaa	gcagacgtga	gtgtgacttt	ttgaaaaaag	tataggataa	attacattaa	1620
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<210> 33

<211> 488

PA-0035 US

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3393861CD1

<400> 33

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Leu	Leu	Leu	Leu	Leu	Cys	Val	Phe	Leu	Val	Lys	Ser	Gln	Gly	Val
				20					25					30
Asn	Asp	Asn	Glu	Glu	Gly	Phe	Phe	Ser	Ala	Arg	Gly	His	Arg	Pro
				35					40					45
Leu	Asp	Lys	Lys	Arg	Glu	Glu	Ala	Pro	Ser	Leu	Arg	Pro	Ala	Pro
				50					55					60
Pro	Pro	Ile	Ser	Gly	Gly	Gly	Tyr	Arg	Ala	Arg	Pro	Ala	Lys	Ala
				65					70					75
Ala	Ala	Thr	Gln	Lys	Lys	Val	Glu	Arg	Lys	Ala	Pro	Asp	Ala	Gly
				80					85					90
Gly	Cys	Leu	His	Ala	Asp	Pro	Asp	Leu	Gly	Val	Leu	Cys	Pro	Thr
				95					100					105
Gly	Cys	Gln	Leu	Gln	Glu	Ala	Leu	Leu	Gln	Gln	Glu	Arg	Pro	Ile
				110					115					120
Arg	Asn	Ser	Val	Asp	Glu	Leu	Asn	Asn	Asn	Val	Glu	Ala	Val	Ser
				125					130					135
Gln	Thr	Ser	Ser	Ser	Ser	Phe	Gln	Tyr	Met	Tyr	Leu	Leu	Lys	Asp
				140					145					150
Leu	Trp	Gln	Lys	Arg	Gln	Lys	Gln	Val	Lys	Asp	Asn	Glu	Asn	Val
				155					160					165
Val	Asn	Glu	Tyr	Ser	Ser	Glu	Leu	Glu	Lys	His	Gln	Leu	Tyr	Ile
				170					175					180
Asp	Glu	Thr	Val	Asn	Ser	Asn	Ile	Pro	Thr	Asn	Leu	Arg	Val	Leu
				185					190					195
Arg	Ser	Ile	Leu	Glu	Asn	Leu	Arg	Ser	Lys	Ile	Gln	Lys	Leu	Glu
				200					205					210
Ser	Asp	Val	Ser	Ala	Gln	Met	Glu	Tyr	Cys	Arg	Thr	Pro	Cys	Thr
				215					220					225
Val	Ser	Cys	Asn	Ile	Pro	Val	Val	Ser	Gly	Lys	Glu	Cys	Glu	Glu
				230					235					240
Ile	Ile	Arg	Lys	Gly	Gly	Glu	Thr	Ser	Glu	Met	Tyr	Leu	Ile	Gln
				245					250					255
Pro	Asp	Ser	Ser	Val	Lys	Pro	Tyr	Arg	Val	Tyr	Cys	Asp	Met	Asn
				260					265					270
Thr	Glu	Asn	Gly	Gly	Trp	Thr	Val	Ile	Gln	Asn	Arg	Gln	Asp	Gly
				275					280					285
Ser	Phe	Asp	Phe	Gly	Arg	Lys	Trp	Asp	Pro	Tyr	Lys	Gln	Gly	Phe
				290					295					300
Gly	Asn	Val	Ala	Thr	Asn	Thr	Asp	Gly	Lys	Asn	Tyr	Cys	Gly	Leu
				305					310					315
Pro	Gly	Glu	Tyr	Trp	Leu	Gly	Asn	Asp	Lys	Ile	Ser	Gln	Leu	Thr
				320					325					330
Arg	Met	Gly	Pro	Thr	Glu	Leu	Leu	Ile	Glu	Met	Glu	Asp	Trp	Lys
				335					340					345
Gly	Asp	Lys	Val	Lys	Ala	His	Tyr	Gly	Gly	Phe	Thr	Val	Gln	Asn
				350					355					360

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Glu Ala Asn Lys Tyr Gln Ile Ser Val Asn Lys Tyr Arg Gly Thr
365 370 375
Ala Gly Asn Ala Leu Met Asp Gly Ala Ser Gln Leu Met Gly Glu
380 385 390
Asn Arg Thr Met Thr Ile His Asn Gly Met Phe Phe Ser Thr Tyr
395 400 405
Asp Arg Asp Asn Asp Gly Trp Leu Thr Ser Asp Pro Arg Lys Gln
410 415 420
Cys Ser Lys Glu Asp Gly Gly Gly Trp Trp Tyr Asn Arg Cys His
425 430 435
Ala Ala Asn Pro Asn Gly Arg Tyr Tyr Trp Gly Gly Gln Tyr Thr
440 445 450
Trp Asp Met Ala Lys His Gly Thr Asp Asp Gly Val Val Trp Met
455 460 465
Asn Trp Lys Gly Ser Trp Tyr Ser Met Lys Lys Met Ser Met Lys
470 475 480
Ile Arg Pro Phe Phe Pro Gln Gln
485

<210> 34

<211> 852

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2517374CB1

<400> 34

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gctgtccttg gttcttacag tcctgagcct cctacctctg ctggaagccc agatccatt 180
gtgtgccaac ctagtaccgg tgcccatcac caacgccacc ctggaccgga tcaactggcaa 240
gtggttttat atcgcacatcg ccttttcgaaa cgaggagtac aataagtcgg ttcaggagat 300
ccaagcaacc ttcttttact tcaccccaaa caagacagag gacacgatct ttctcagaga 360
gtaccagacc cgacaggacc agtgcattta taacaccacc tacctgaatg tccagcggga 420
aaatgggacc atctccagat acgtgggagg ccaagagcat ttcgctcact tgctgatcct 480
cagggacacc aagacctaca tgcttgcttt tgacgtgaac gatgagaaga actggggggt 540
gtctgtctat gctgacaagc cagagacgac caaggagcaa ctgggagagt tctacgaagc 600
tctcgactgc ttgcgatttc ccaagtcaga tgtcgtgtac accgattgga aaaaggataa 660
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gcaggacaca gccttggttc aggacagaga cttggggggc atcctgcccc tccaaccga 780
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<210> 35

<211> 201

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2517374CD1

<400> 35

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PA-0035 US

Leu Glu Ala Gln Ile Pro Leu Cys Ala Asn Leu Val Pro Val Pro
20 25 30
Ile Thr Asn Ala Thr Leu Asp Arg Ile Thr Gly Lys Trp Phe Tyr
35 40 45
Ile Ala Ser Ala Phe Arg Asn Glu Glu Tyr Asn Lys Ser Val Gln
50 55 60
Glu Ile Gln Ala Thr Phe Phe Tyr Phe Thr Pro Asn Lys Thr Glu
65 70 75
Asp Thr Ile Phe Leu Arg Glu Tyr Gln Thr Arg Gln Asp Gln Cys
80 85 90
Ile Tyr Asn Thr Thr Tyr Leu Asn Val Gln Arg Glu Asn Gly Thr
95 100 105
Ile Ser Arg Tyr Val Gly Gly Gln Glu His Phe Ala His Leu Leu
110 115 120
Ile Leu Arg Asp Thr Lys Thr Tyr Met Leu Ala Phe Asp Val Asn
125 130 135
Asp Glu Lys Asn Trp Gly Leu Ser Val Tyr Ala Asp Lys Pro Glu
140 145 150
Thr Thr Lys Glu Gln Leu Gly Glu Phe Tyr Glu Ala Leu Asp Cys
155 160 165
Leu Arg Ile Pro Lys Ser Asp Val Val Tyr Thr Asp Trp Lys Lys
170 175 180
Asp Lys Cys Glu Pro Leu Glu Lys Gln His Glu Lys Glu Arg Lys
185 190 195
Gln Glu Glu Gly Glu Ser
200

<210> 36

<211> 483

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 030850.7

<400> 36

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gagttcctgg agaatacacag ccgattacct gaagccaaga aataccttca tcagctaatt 180
gcagcaaacc cagtacttcc tctggttggtg tttgcaaaca aacaggatct tgaagcagcc 240
tatcacatta cagatatcca tgaagctttg gcattatctg aagtgggaaa tgacaggaag 300
atgttcttgt ttggaacctt cctgactaag aatggctcag agataccctc caccatgcaa 360
gatgccaag acttgattgc acagctggct gcagatgtgc agtgaccagg actcagccca 420
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<210> 37

<211> 567

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 237416.12c

<220>

PA-0035 US

<221> unsure

<222> 33, 483, 500

<223> a, t, c, g, or other

<400> 37

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cctttcacgt cttactactc tccaaatcgg agtccatcac ttcacttcag ttattcatta 180
aggggttcct ctacagcttt cctaggaggt tgtatagtct tctgattgga agctgatata 240
aataacaaat aagaatataa atttaataaa tgaaataaac taaggcattt ggtaatgttt 300
aattttaaga taaaatgttc agggctaaaa ctaaagggtgc cagagatgtt aatgaaagag 360
ttccagctct gacagtctat tcaaacatgc tgaatattct tgattatata cactgatttg 420
aaaaatgaag caaataaccc atctacatca aatagtaaac acattctctc atttgtttat 480
ccnaattttc ccccaaactn gccacttggt acactggctg gtgggaaaaa gctgtcacca 540
acataccccc accatgggtg ctccatc 567
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<210> 38

<211> 1003

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 237416.14

<400> 38

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tccctttcgt cactttgctc atgtactgta ttcttcaac ttcattaatg aatccatttg 180
gaagcagtga aaaaggcaac tcagaaagct aagaagaaat agatagagga atactcagag 240
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gggagtgatg tggagaaaga gactgagctt gtaagacaca ggagcagtga gctaaggag 360
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gcatgtttga atagactgtc agagctggaa ctctttcatt aacatctctg gcacctttag 660
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acaagaaaag taactggttg tcacctatga gaccttacg tgattgttag ttaagttttt 960
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<210> 39

<211> 6868

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1269631CB1

<400> 39

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6868

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<211> 2214

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1269631CD1

<400> 40

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Phe	Thr	Leu	Val	Ala	Leu	Leu	Pro	Pro	Gly	Ala	Leu	Cys	Glu	Val
				20				25						30
Trp	Thr	Gln	Arg	Leu	His	Gly	Gly	Ser	Ala	Pro	Leu	Pro	Gln	Asp
				35				40						45
Arg	Gly	Phe	Leu	Val	Val	Gln	Gly	Asp	Pro	Arg	Glu	Leu	Arg	Leu
				50				55						60
Trp	Ala	Arg	Gly	Asp	Ala	Arg	Gly	Ala	Ser	Arg	Ala	Asp	Glu	Lys
				65				70						75
Pro	Leu	Arg	Arg	Lys	Arg	Ser	Ala	Ala	Leu	Gln	Pro	Glu	Pro	Ile
				80				85						90
Lys	Val	Tyr	Gly	Gln	Val	Ser	Leu	Asn	Asp	Ser	His	Asn	Gln	Met
				95				100						105
Val	Val	His	Trp	Ala	Gly	Glu	Lys	Ser	Asn	Val	Ile	Val	Ala	Leu
				110				115						120
Ala	Arg	Asp	Ser	Leu	Ala	Leu	Ala	Arg	Pro	Lys	Ser	Ser	Asp	Val
				125				130						135
Tyr	Val	Ser	Tyr	Asp	Tyr	Gly	Lys	Ser	Phe	Lys	Lys	Ile	Ser	Asp
				140				145						150
Lys	Leu	Asn	Phe	Gly	Leu	Gly	Asn	Arg	Ser	Glu	Ala	Val	Ile	Ala
				155				160						165
Gln	Phe	Tyr	His	Ser	Pro	Ala	Asp	Asn	Lys	Arg	Tyr	Ile	Phe	Ala
				170				175						180
Asp	Ala	Tyr	Ala	Gln	Tyr	Leu	Trp	Ile	Thr	Phe	Asp	Phe	Cys	Asn
				185				190						195
Thr	Leu	Gln	Gly	Phe	Ser	Ile	Pro	Phe	Arg	Ala	Ala	Asp	Leu	Leu
				200				205						210
Leu	His	Ser	Lys	Ala	Ser	Asn	Leu	Leu	Leu	Gly	Phe	Asp	Arg	Ser
				215				220						225
His	Pro	Asn	Lys	Gln	Leu	Trp	Lys	Ser	Asp	Asp	Phe	Gly	Gln	Thr
				230				235						240
Trp	Ile	Met	Ile	Gln	Glu	His	Val	Lys	Ser	Phe	Ser	Trp	Gly	Ile
				245				250						255
Asp	Pro	Tyr	Asp	Lys	Pro	Asn	Thr	Ile	Tyr	Ile	Glu	Arg	His	Glu
				260				265						270
Pro	Ser	Gly	Tyr	Ser	Thr	Val	Phe	Arg	Ser	Thr	Asp	Phe	Phe	Gln
				275				280						285
Ser	Arg	Glu	Asn	Gln	Glu	Val	Ile	Leu	Glu	Glu	Val	Arg	Asp	Phe
				290				295						300
Gln	Leu	Arg	Asp	Lys	Tyr	Met	Phe	Ala	Thr	Lys	Val	Val	His	Leu
				305				310						315
Leu	Gly	Ser	Glu	Gln	Gln	Ser	Ser	Val	Gln	Leu	Trp	Val	Ser	Phe
				320				325						330

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Gly	Arg	Lys	Pro	Met	Arg	Ala	Ala	Gln	Phe	Val	Thr	Arg	His	Pro	
				335					340					345	
Ile	Asn	Glu	Tyr	Tyr	Ile	Ala	Asp	Ala	Ser	Glu	Asp	Gln	Val	Phe	
				350					355					360	
Val	Cys	Val	Ser	His	Ser	Asn	Asn	Arg	Thr	Asn	Leu	Tyr	Ile	Ser	
				365					370					375	
Glu	Ala	Glu	Gly	Leu	Lys	Phe	Ser	Leu	Ser	Leu	Glu	Asn	Val	Leu	
				380					385					390	
Tyr	Tyr	Ser	Pro	Gly	Gly	Ala	Gly	Ser	Asp	Thr	Leu	Val	Arg	Tyr	
				395					400					405	
Phe	Ala	Asn	Glu	Pro	Phe	Ala	Asp	Phe	His	Arg	Val	Glu	Gly	Leu	
				410					415					420	
Gln	Gly	Val	Tyr	Ile	Ala	Thr	Leu	Ile	Asn	Gly	Ser	Met	Asn	Glu	
				425					430					435	
Glu	Asn	Met	Arg	Ser	Val	Ile	Thr	Phe	Asp	Lys	Gly	Gly	Thr	Trp	
				440					445					450	
Glu	Phe	Leu	Gln	Ala	Pro	Ala	Phe	Thr	Gly	Tyr	Gly	Glu	Lys	Ile	
				455					460					465	
Asn	Cys	Glu	Leu	Ser	Gln	Gly	Cys	Ser	Leu	His	Leu	Ala	Gln	Arg	
				470					475					480	
Leu	Ser	Gln	Leu	Leu	Asn	Leu	Gln	Leu	Arg	Arg	Met	Pro	Ile	Leu	
				485					490					495	
Ser	Lys	Glu	Ser	Ala	Pro	Gly	Leu	Ile	Ile	Ala	Thr	Gly	Ser	Val	
				500					505					510	
Gly	Lys	Asn	Leu	Ala	Ser	Lys	Thr	Asn	Val	Tyr	Ile	Ser	Ser	Ser	
				515					520					525	
Ala	Gly	Ala	Arg	Trp	Arg	Glu	Ala	Leu	Pro	Gly	Pro	His	Tyr	Tyr	
				530					535					540	
Thr	Trp	Gly	Asp	His	Gly	Gly	Ile	Ile	Thr	Ala	Ile	Ala	Gln	Gly	
				545					550					555	
Met	Glu	Thr	Asn	Glu	Leu	Lys	Tyr	Ser	Thr	Asn	Glu	Gly	Glu	Thr	
				560					565					570	
Trp	Lys	Thr	Phe	Ile	Phe	Ser	Glu	Lys	Pro	Val	Phe	Val	Tyr	Gly	
				575					580					585	
Leu	Leu	Thr	Glu	Pro	Gly	Glu	Lys	Ser	Thr	Val	Phe	Thr	Ile	Phe	
				590					595					600	
Gly	Ser	Asn	Lys	Glu	Asn	Val	His	Ser	Trp	Leu	Ile	Leu	Gln	Val	
				605					610					615	
Asn	Ala	Thr	Asp	Ala	Leu	Gly	Val	Pro	Cys	Thr	Glu	Asn	Asp	Tyr	
				620					625					630	
Lys	Leu	Trp	Ser	Pro	Ser	Asp	Glu	Arg	Gly	Asn	Glu	Cys	Leu	Leu	
				635					640					645	
Gly	His	Lys	Thr	Val	Phe	Lys	Arg	Arg	Thr	Pro	His	Ala	Thr	Cys	
				650					655					660	
Phe	Asn	Gly	Glu	Asp	Phe	Asp	Arg	Pro	Val	Val	Val	Ser	Asn	Cys	
				665					670					675	
Ser	Cys	Thr	Arg	Glu	Asp	Tyr	Glu	Cys	Asp	Phe	Gly	Phe	Lys	Met	
				680					685					690	
Ser	Glu	Asp	Leu	Ser	Leu	Glu	Val	Cys	Val	Pro	Asp	Pro	Glu	Phe	
				695					700					705	
Ser	Gly	Lys	Ser	Tyr	Ser	Pro	Pro	Val	Pro	Cys	Pro	Val	Gly	Ser	
				710					715					720	
Thr	Tyr	Arg	Arg	Thr	Arg	Gly	Tyr	Arg	Lys	Ile	Ser	Gly	Asp	Thr	
				725					730					735	
Cys	Ser	Gly	Gly	Asp	Val	Glu	Ala	Arg	Leu	Glu	Gly	Glu	Leu	Val	
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Pro Cys Pro Leu Ala Glu Glu Asn Glu Phe Ile Leu Tyr Ala Val	755	760	765
Arg Lys Ser Ile Tyr Arg Tyr Asp Leu Ala Ser Gly Ala Thr Glu	770	775	780
Gln Leu Pro Leu Thr Gly Leu Arg Ala Ala Val Ala Leu Asp Phe	785	790	795
Asp Tyr Glu His Asn Cys Leu Tyr Trp Ser Asp Leu Ala Leu Asp	800	805	810
Val Ile Gln Arg Leu Cys Leu Asn Gly Ser Thr Gly Gln Glu Val	815	820	825
Ile Ile Asn Ser Gly Leu Glu Thr Val Glu Ala Leu Ala Phe Glu	830	835	840
Pro Leu Ser Gln Leu Leu Tyr Trp Val Asp Ala Gly Phe Lys Lys	845	850	855
Ile Glu Val Ala Asn Pro Asp Gly Asp Phe Arg Leu Thr Ile Val	860	865	870
Asn Ser Ser Val Leu Asp Arg Pro Arg Ala Leu Val Leu Val Pro	875	880	885
Gln Glu Gly Val Met Phe Trp Thr Asp Trp Gly Asp Leu Lys Pro	890	895	900
Gly Ile Tyr Arg Ser Asn Met Asp Gly Ser Ala Ala Tyr His Leu	905	910	915
Val Ser Glu Asp Val Lys Trp Pro Asn Gly Ile Ser Val Asp Asp	920	925	930
Gln Trp Ile Tyr Trp Thr Asp Ala Tyr Leu Glu Cys Ile Glu Arg	935	940	945
Ile Thr Phe Ser Gly Gln Gln Arg Ser Val Ile Leu Asp Asn Leu	950	955	960
Pro His Pro Tyr Ala Ile Ala Val Phe Lys Asn Glu Ile Tyr Trp	965	970	975
Asp Asp Trp Ser Gln Leu Ser Ile Phe Arg Ala Ser Lys Tyr Ser	980	985	990
Gly Ser Gln Met Glu Ile Leu Ala Asn Gln Leu Thr Gly Leu Met	995	1000	1005
Asp Met Lys Ile Phe Tyr Lys Gly Lys Asn Thr Gly Ser Asn Ala	1010	1015	1020
Cys Val Pro Arg Pro Cys Ser Leu Leu Cys Leu Pro Lys Ala Asn	1025	1030	1035
Asn Ser Arg Ser Cys Arg Cys Pro Glu Asp Val Ser Ser Ser Val	1040	1045	1050
Leu Pro Ser Gly Asp Leu Met Cys Asp Cys Pro Gln Gly Tyr Gln	1055	1060	1065
Leu Lys Asn Asn Thr Cys Val Lys Glu Glu Asn Thr Cys Leu Arg	1070	1075	1080
Asn Gln Tyr Arg Cys Ser Asn Gly Asn Cys Ile Asn Ser Ile Trp	1085	1090	1095
Trp Cys Asp Phe Asp Asn Asp Cys Gly Asp Met Ser Asp Glu Arg	1100	1105	1110
Asn Cys Pro Thr Thr Ile Cys Asp Leu Asp Thr Gln Phe Arg Cys	1115	1120	1125
Gln Glu Ser Gly Thr Cys Ile Pro Leu Ser Tyr Lys Cys Asp Leu	1130	1135	1140
Glu Asp Asp Cys Gly Asp Asn Ser Asp Glu Ser His Cys Glu Met	1145	1150	1155
His Gln Cys Arg Ser Asp Glu Tyr Asn Cys Ser Ser Gly Met Cys	1160	1165	1170

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Ile Arg Ser Ser Trp Val Cys Asp Gly Asp Asn Asp Cys Arg Asp	1175	1180	1185
Trp Ser Asp Glu Ala Asn Cys Thr Ala Ile Tyr His Thr Cys Glu	1190	1195	1200
Ala Ser Asn Phe Gln Cys Arg Asn Gly His Cys Ile Pro Gln Arg	1205	1210	1215
Trp Ala Cys Asp Gly Asp Thr Asp Cys Gln Asp Gly Ser Asp Glu	1220	1225	1230
Asp Pro Val Asn Cys Glu Lys Lys Cys Asn Gly Phe Arg Cys Pro	1235	1240	1245
Asn Gly Thr Cys Ile Pro Ser Ser Lys His Cys Asp Gly Leu Arg	1250	1255	1260
Asp Cys Ser Asp Gly Ser Asp Glu Gln His Cys Glu Pro Leu Cys	1265	1270	1275
Thr His Phe Met Asp Phe Val Cys Lys Asn Arg Gln Gln Cys Leu	1280	1285	1290
Phe His Ser Met Val Cys Asp Gly Ile Ile Gln Cys Arg Asp Gly	1295	1300	1305
Ser Asp Glu Asp Ala Ala Phe Ala Gly Cys Ser Gln Asp Pro Glu	1310	1315	1320
Phe His Lys Val Cys Asp Glu Phe Gly Phe Gln Cys Gln Asn Gly	1325	1330	1335
Val Cys Ile Ser Leu Ile Trp Lys Cys Asp Gly Met Asp Asp Cys	1340	1345	1350
Gly Asp Tyr Ser Asp Glu Ala Asn Cys Glu Asn Pro Thr Glu Ala	1355	1360	1365
Pro Asn Cys Ser Arg Tyr Phe Gln Phe Arg Cys Glu Asn Gly His	1370	1375	1380
Cys Ile Pro Asn Arg Trp Lys Cys Asp Arg Glu Asn Asp Cys Gly	1385	1390	1395
Asp Trp Ser Asp Glu Lys Asp Cys Gly Asp Ser His Ile Leu Pro	1400	1405	1410
Phe Ser Thr Pro Gly Pro Ser Thr Cys Leu Pro Asn Tyr Tyr Arg	1415	1420	1425
Cys Ser Ser Gly Thr Cys Val Met Asp Thr Trp Val Cys Asp Gly	1430	1435	1440
Tyr Arg Asp Cys Ala Asp Gly Ser Asp Glu Glu Ala Cys Pro Leu	1445	1450	1455
Leu Ala Asn Val Thr Ala Ala Ser Thr Pro Thr Gln Leu Gly Arg	1460	1465	1470
Cys Asp Arg Phe Glu Phe Glu Cys His Gln Pro Lys Thr Cys Ile	1475	1480	1485
Pro Asn Trp Lys Arg Cys Asp Gly His Gln Asp Cys Gln Asp Gly	1490	1495	1500
Arg Asp Glu Ala Asn Cys Pro Thr His Ser Thr Leu Thr Cys Met	1505	1510	1515
Ser Arg Glu Phe Gln Cys Glu Asp Gly Glu Ala Cys Ile Val Leu	1520	1525	1530
Ser Glu Arg Cys Asp Gly Phe Leu Asp Cys Ser Asp Glu Ser Asp	1535	1540	1545
Glu Lys Ala Cys Ser Asp Glu Leu Thr Val Tyr Lys Val Gln Asn	1550	1555	1560
Leu Gln Trp Thr Ala Asp Phe Ser Gly Asp Val Thr Leu Thr Trp	1565	1570	1575
Met Arg Pro Lys Lys Met Pro Ser Ala Ser Cys Val Tyr Asn Val	1580	1585	1590

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Tyr	Tyr	Arg	Val	Val	Gly	Glu	Ser	Ile	Trp	Lys	Thr	Leu	Glu	Thr
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His	Ser	Asn	Lys	Thr	Asn	Thr	Val	Leu	Lys	Val	Leu	Lys	Pro	Asp
					1610				1615					1620
Thr	Thr	Tyr	Gln	Val	Lys	Val	Gln	Val	Gln	Cys	Leu	Ser	Lys	Ala
					1625				1630					1635
His	Asn	Thr	Asn	Asp	Phe	Val	Thr	Leu	Arg	Thr	Pro	Glu	Gly	Leu
					1640				1645					1650
Pro	Asp	Ala	Pro	Arg	Asn	Leu	Gln	Leu	Ser	Leu	Pro	Arg	Glu	Ala
					1655				1660					1665
Glu	Gly	Val	Ile	Val	Gly	His	Trp	Ala	Pro	Pro	Ile	His	Thr	His
					1670				1675					1680
Gly	Leu	Ile	Arg	Glu	Tyr	Ile	Val	Glu	Tyr	Ser	Arg	Ser	Gly	Ser
					1685				1690					1695
Lys	Met	Trp	Ala	Ser	Gln	Arg	Ala	Ala	Ser	Asn	Phe	Thr	Glu	Ile
					1700				1705					1710
Lys	Asn	Leu	Leu	Val	Asn	Thr	Leu	Tyr	Thr	Val	Arg	Val	Ala	Ala
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Val	Thr	Ser	Arg	Gly	Ile	Gly	Asn	Trp	Ser	Asp	Ser	Lys	Ser	Ile
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Thr	Thr	Ile	Lys	Gly	Lys	Val	Ile	Pro	Pro	Pro	Asp	Ile	His	Ile
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Asp	Ser	Tyr	Gly	Glu	Asn	Tyr	Leu	Ser	Phe	Thr	Leu	Thr	Met	Glu
					1760				1765					1770
Ser	Asp	Ile	Lys	Val	Asn	Gly	Tyr	Val	Val	Asn	Leu	Phe	Trp	Ala
					1775				1780					1785
Phe	Asp	Thr	His	Lys	Gln	Glu	Arg	Arg	Thr	Leu	Asn	Phe	Arg	Gly
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Ser	Ile	Leu	Ser	His	Lys	Val	Gly	Asn	Leu	Thr	Ala	His	Thr	Ser
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Tyr	Glu	Ile	Ser	Ala	Trp	Ala	Lys	Thr	Asp	Leu	Gly	Asp	Ser	Pro
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Leu	Ala	Phe	Glu	His	Val	Met	Thr	Arg	Gly	Val	Arg	Pro	Pro	Ala
					1835				1840					1845
Pro	Ser	Leu	Lys	Ala	Lys	Ala	Ile	Asn	Gln	Thr	Ala	Val	Glu	Cys
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Thr	Trp	Thr	Gly	Pro	Arg	Asn	Val	Val	Tyr	Gly	Ile	Phe	Tyr	Ala
					1865				1870					1875
Thr	Ser	Phe	Leu	Asp	Leu	Tyr	Arg	Asn	Pro	Lys	Ser	Leu	Thr	Thr
					1880				1885					1890
Ser	Leu	His	Asn	Lys	Thr	Val	Ile	Val	Ser	Lys	Asp	Glu	Gln	Tyr
					1895				1900					1905
Leu	Phe	Leu	Val	Arg	Val	Val	Val	Pro	Tyr	Gln	Gly	Pro	Ser	Ser
					1910				1915					1920
Asp	Tyr	Val	Val	Val	Lys	Met	Ile	Pro	Asp	Ser	Arg	Leu	Pro	Pro
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Arg	His	Leu	His	Val	Val	His	Thr	Gly	Lys	Thr	Ser	Val	Val	Ile
					1940				1945					1950
Lys	Trp	Glu	Ser	Pro	Tyr	Asp	Ser	Pro	Asp	Gln	Asp	Leu	Leu	Tyr
					1955				1960					1965
Ala	Ile	Ala	Val	Lys	Asp	Leu	Ile	Arg	Lys	Thr	Asp	Arg	Ser	Tyr
					1970				1975					1980
Lys	Val	Lys	Ser	Arg	Asn	Ser	Thr	Val	Glu	Tyr	Thr	Leu	Asn	Lys
					1985				1990					1995
Leu	Glu	Pro	Gly	Gly	Lys	Tyr	His	Ile	Ile	Val	Gln	Leu	Gly	Asn
					2000				2005					2010

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Met Ser Lys Asp Ser Ser Ile Lys Ile Thr Thr Val Ser Leu Ser
2015 2020 2025
Ala Pro Asp Ala Leu Lys Ile Ile Thr Glu Asn Asp His Val Leu
2030 2035 2040
Leu Phe Trp Lys Ser Leu Ala Leu Lys Glu Lys His Phe Asn Glu
2045 2050 2055
Ser Arg Gly Tyr Glu Ile His Met Phe Asp Ser Ala Met Asn Ile
2060 2065 2070
Thr Ala Tyr Leu Gly Asn Thr Thr Asp Asn Phe Phe Lys Ile Ser
2075 2080 2085
Asn Leu Lys Met Gly His Asn Tyr Thr Phe Thr Val Gln Ala Arg
2090 2095 2100
Cys Leu Phe Gly Asn Gln Ile Cys Gly Glu Pro Ala Ile Leu Leu
2105 2110 2115
Tyr Asp Glu Leu Gly Ser Gly Ala Asp Ala Ser Ala Thr Gln Ala
2120 2125 2130
Ala Arg Ser Thr Asp Val Ala Ala Val Val Val Pro Ile Leu Phe
2135 2140 2145
Leu Ile Leu Leu Ser Leu Gly Val Gly Phe Ala Ile Leu Tyr Thr
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Lys His Arg Arg Leu Gln Ser Ser Phe Thr Ala Phe Ala Asn Ser
2165 2170 2175
His Tyr Ser Ser Arg Leu Gly Ser Ala Ile Phe Ser Ser Gly Asp
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<211> 2167

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 961189CB1

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Lys	Gln	Ala	Phe	Glu	Glu	Leu	Arg	Asp	Asp	Leu	Val	Glu	Leu	Ser	200	205	210
Lys	Ala	Lys	Tyr	Ser	Arg	Asn	Ile	Val	Lys	Lys	Phe	Leu	Met	Tyr	215	220	225
Gly	Ser	Lys	Pro	Gln	Ile	Ala	Glu	Ile	Ile	Arg	Ser	Phe	Lys	Gly	230	235	240
His	Val	Arg	Lys	Met	Leu	Arg	His	Ala	Glu	Ala	Ser	Ala	Ile	Val	245	250	255
Glu	Tyr	Ala	Tyr	Asn	Asp	Lys	Ala	Ile	Leu	Glu	Gln	Arg	Asn	Met	260	265	270
Leu	Thr	Glu	Glu	Leu	Tyr	Gly	Asn	Thr	Phe	Gln	Leu	Tyr	Lys	Ser	275	280	285
Ala	Asp	His	Pro	Thr	Leu	Asp	Lys	Val	Leu	Glu	Val	Gln	Pro	Glu	290	295	300
Lys	Leu	Glu	Leu	Ile	Met	Asp	Glu	Met	Lys	Gln	Ile	Leu	Thr	Pro	305	310	315
Met	Ala	Gln	Lys	Glu	Ala	Val	Ile	Lys	His	Ser	Leu	Val	His	Lys	320	325	330
Val	Phe	Leu	Asp	Phe	Phe	Thr	Tyr	Ala	Pro	Pro	Lys	Leu	Arg	Ser	335	340	345
Glu	Met	Ile	Glu	Ala	Ile	Arg	Glu	Ala	Val	Val	Tyr	Leu	Ala	His	350	355	360
Thr	His	Asp	Gly	Ala	Arg	Val	Ala	Met	His	Cys	Leu	Trp	His	Gly	365	370	375
Thr	Pro	Lys	Asp	Arg	Lys	Val	Ile	Val	Lys	Thr	Met	Lys	Thr	Tyr	380	385	390
Val	Glu	Lys	Val	Ala	Asn	Gly	Gln	Tyr	Ser	His	Leu	Val	Leu	Leu	395	400	405
Ala	Ala	Phe	Asp	Cys	Ile	Asp	Asp	Thr	Lys	Leu	Val	Lys	Gln	Ile	410	415	420
Ile	Ile	Ser	Glu	Ile	Ile	Ser	Ser	Leu	Pro	Ser	Ile	Val	Asn	Asp	425	430	435
Lys	Tyr	Gly	Arg	Lys	Val	Leu	Leu	Tyr	Leu	Leu	Ser	Pro	Arg	Asp	440	445	450
Pro	Ala	His	Thr	Val	Arg	Glu	Ile	Ile	Glu	Val	Leu	Gln	Lys	Gly	455	460	465
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Glu	His	Ala	Gln	Glu	Val	Val	Leu	Asp	Lys	Ser	Ala	Cys	Val	Leu	500	505	510
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Gly	Lys	Asp	Gly	Glu	Leu	His	Ile	Ala	Glu	His	Pro	Ala	Gly	His	545	550	555
Leu	Val	Leu	Lys	Trp	Leu	Ile	Glu	Gln	Asp	Lys	Lys	Met	Lys	Glu	560	565	570
Asn	Gly	Arg	Glu	Gly	Cys	Phe	Ala	Lys	Thr	Leu	Val	Glu	His	Val	575	580	585
Gly	Met	Lys	Asn	Leu	Lys	Ser	Trp	Ala	Ser	Val	Asn	Arg	Gly	Ala	590	595	600
Ile	Ile	Leu	Ser	Ser	Leu	Leu	Gln	Ser	Cys	Asp	Leu	Glu	Val	Ala	605	610	615

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Asn Lys Val Lys Ala Ala Leu Lys Ser Leu Ile Pro Thr Leu Glu
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Lys Thr Lys Ser Thr Ser Lys Gly Ile Glu Ile Leu Leu Glu Lys
635 640 645
Leu Ser Thr

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gtctgcccag ctgttgcttc tgagatcaca gtcttcttat tcttaagtga cgctgcggtg 180
aacctccaag ttgccaaact taatccacct ccagaagctc ttgcagccaa gttggaagtg 240
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<213> Homo sapiens

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<223> Incyte ID No: 017958.1

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<210> 45
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<212> DNA
<213> Homo sapiens

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<221> unsure
<222> 905
<223> a, t, c, g, or other

<400> 45

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<211> 2523

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<223> Incyte ID No: 476301CB1

<400> 46

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<211> 596

<212> PRT

<213> Homo sapiens

<220>

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<223> Incyte ID No: 476301CD1

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35 40 45
His Pro Thr Ser Cys Ser Ser Ser Ser Glu Ile Met Ser Val Leu
50 55 60
Phe Phe Tyr Ile Met Arg Tyr Lys Gln Ser Asp Pro Glu Asn Pro
65 70 75
Asp Asn Asp Arg Phe Val Leu Ala Lys Arg Leu Ser Phe Val Asp
80 85 90
Val Ala Thr Gly Trp Leu Gly Gln Gly Leu Gly Val Ala Cys Gly
95 100 105
Met Ala Tyr Thr Gly Lys Tyr Phe Asp Arg Ala Ser Tyr Arg Val
110 115 120
Phe Cys Leu Met Ser Asp Gly Glu Ser Ser Glu Gly Ser Val Trp
125 130 135
Glu Ala Met Ala Phe Ala Ser Tyr Tyr Ser Leu Asp Asn Leu Val
140 145 150
Ala Ile Phe Asp Val Asn Arg Leu Gly His Ser Gly Ala Leu Pro
155 160 165
Ala Glu His Cys Ile Asn Ile Tyr Gln Arg Arg Cys Glu Ala Phe
170 175 180
Gly Trp Asn Thr Tyr Val Val Asp Gly Arg Asp Val Glu Ala Leu

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Cys	Gln	Val	Phe	Trp	Gln	Ala	Ser	Gln	Val	Lys	His	Lys	Pro	Thr	185	190	195
															200	205	210
Ala	Val	Val	Ala	Lys	Thr	Phe	Lys	Gly	Arg	Gly	Thr	Pro	Ser	Ile	215	220	225
Glu	Asp	Ala	Glu	Ser	Trp	His	Ala	Lys	Pro	Met	Pro	Arg	Glu	Arg	230	235	240
Ala	Asp	Ala	Ile	Ile	Lys	Leu	Ile	Glu	Ser	Gln	Ile	Gln	Thr	Ser	245	250	255
Arg	Asn	Leu	Asp	Pro	Gln	Pro	Pro	Ile	Glu	Asp	Ser	Pro	Glu	Val	260	265	270
Asn	Ile	Thr	Asp	Val	Arg	Met	Thr	Ser	Pro	Pro	Asp	Tyr	Arg	Val	275	280	285
Gly	Asp	Lys	Ile	Ala	Thr	Arg	Lys	Ala	Cys	Gly	Leu	Ala	Leu	Ala	290	295	300
Lys	Leu	Gly	Tyr	Ala	Asn	Asn	Arg	Val	Val	Val	Leu	Asp	Gly	Asp	305	310	315
Thr	Arg	Tyr	Ser	Thr	Phe	Ser	Glu	Ile	Phe	Asn	Lys	Glu	Tyr	Pro	320	325	330
Glu	Arg	Phe	Ile	Glu	Cys	Phe	Met	Ala	Glu	Gln	Asn	Met	Val	Ser	335	340	345
Val	Ala	Leu	Gly	Cys	Ala	Ser	Arg	Gly	Arg	Thr	Ile	Ala	Phe	Ala	350	355	360
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Cys	Gly	Val	Ser	Val	Gly	Asp	Asp	Gly	Ala	Ser	Gln	Met	Ala	Leu	395	400	405
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Tyr	Pro	Thr	Asp	Ala	Val	Ser	Thr	Glu	His	Ala	Val	Ala	Leu	Ala	425	430	435
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Thr	Glu	Gly	Arg	Ile	Ile	Thr	Val	Glu	Asp	His	Tyr	Pro	Gln	Gly	530	535	540
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Ile	Gln	Val	His	Ser	Leu	Ala	Val	Ser	Gly	Val	Pro	Gln	Ser	Gly	560	565	570
Lys	Ser	Glu	Glu	Leu	Leu	Asp	Met	Tyr	Gly	Ile	Ser	Ala	Arg	His	575	580	585
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<211> 2492

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 996427.2

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taagagaaac cggtgctttc ttttagttca tttgtatttc ccttgttact gtaaaagact 2340
gtttattaat tgtttacagt ttgttgcaac agccattttc ttgggagaaa gcttgagtgt 2400
aaagccattt gtaaaaggct ttgccatact cattttaata tgtgcctgtt gctgttaact 2460
tttgatgaat aaaaacctat cttttcataa aa 2492
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<210> 49

<211> 902

<212> DNA

<213> Homo sapiens

PA-0035 US

<220>

<221> misc_feature

<223> Incyte ID No: 2989375CB1

<400> 49

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cactgcactc cagtcctagg gacagagaag gactcgtctc aaaaaataaa aataaataaa 60
aaggaagcaa ggctaatacat cagtatgtgc ttgttacaag agctatgatg aaggcactcc 120
ttcgagttta accaaatgag atcatctctg tcatgtgcct cagcctcac agggactcca 180
tgtgtgaaga ttcccccttc actcaccaga tcatctccat ggcaacagct tgcagcctgc 240
tcttgagtg ctttgttttg gcagcttctc tgctagtttg tgtatggagt gaatggagga 300
ggtaaatacca cagattaaga atatgctgtc aggagtcagg cagccaaggc cagaagccag 360
ctctgcttct cagtgccttc tctttacaac acaggacttt gcaaggaaca tataattctg 420
tgactagcgc catttggaag atgttgaaac tgaagtagag atgagagatc ttacgtctgc 480
ctaccagtg agatacgagg aaggtcaagg gaaaaaaaat tccaagctct tctttatctg 540
ctataggaaa tgaacattca attttttgca tgcaacgaca agaggtcaag gacccagaa 600
gccagccgc tacttccaag ttgagagccc ctggtcatac cctccagttg agctcagatt 660
tgtacaaaat ttaccctctt cctttccttc cattcccat gacctgcaga gagagatgtc 720
agataccttc ctcttgacct cccatgggca tccataagaa acttacttga agcaagaagc 780
ccagtatagg tgtctgggca gttggacatt tcctctagcc agatctgtcc gaatagagcc 840
atctgggtac atgacgcaga gggcatttga taaataactg gaaaagtcaa taaatctttg 900
tc 902
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<210> 50

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2989375CD1

<400> 50

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Met Cys Leu Thr Pro His Arg Asp Ser Met Cys Glu Asp Ser Pro
  1          5          10          15
Phe Thr His Gln Ile Ile Ser Met Ala Thr Ala Cys Ser Leu Leu
          20          25          30
Leu Glu Cys Phe Val Leu Ala Ala Ser Leu Leu Val Cys Val Trp
          35          40          45
Ser Glu Trp Arg Arg
          50
```

<210> 51

<211> 618

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 236359.2

<220>

<221> unsure

<222> 44, 57

<223> a, t, c, g, or other

<400> 51

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aagaattcgt caaaggacac attttgatcat tagcacttac aganagcaac tacagcnagc 60
```

PA-0035 US

```
cctagatttt cgaaactctt cagctacttg cccctttttta tctgaaacca tcataccttc 120
tgaaagaaaa aagcatatct tcattgacat aacagaagtg agatggccca gtcttgatac 180
agatgggtacc atgatataata tggagagtgg cattgtgaag ataacatctt tagatgggtca 240
tgcataacctc tgccctgccc gatctcagca tgaatttaca gtacattttt tgtgtaaagt 300
tagccagaag tcagactcat ctgcagtgtt gtcagaaaca aataataaag ccccaaaaga 360
taaactagtt gaaaaaactg gcaaaatctg tatacgtgga aatttaccag gacagagact 420
gaagaataaa gaaaatgagt ttcatggcca gatcatgaaa tccaaagaaa ctttaaagaa 480
gatgagttgt gtaaattggaa ctgaaggagg ggaagagctg ccttcgcctg gtacaaagca 540
cacatgtgta tacacatggg tcaagcagtg ctggtctgtg gctgcctgtc cagaggaatg 600
gaaatatcct ttgtcttt 618
```

<210> 52
<211> 527
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 011112.1c

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<400> 52
atccctgcct tcagtgggtg ctatatatatt agtatgagct ttattcactt cctcttcttc 60
tcgtttgagt gcctgaaaga actgtggctg atgtctatag acatagaaaa atctaggaga 120
atatgattca ttgtctaacc ccatcaaggg gttacatatt ttaaataaga cgtcatttct 180
cctcttcaact ccagcatctc ctccttcaaa ggcatttttc accctcttga aattaatacg 240
ctctattcgc tcttttcacc taaaaaaagg tcaatcgtcg ctctgagaaa caacagttag 300
atgcaaaata agggtaaaat ggcattgaaa tgaatccctt tgaaaaagta agcgggtttgc 360
tttatcagtt aatggtctca tcagcgcttc agtttctct tctgcaaaaa tcagtctgtt 420
gaactagagc atatcaaagg ttccttctag tgttttgatt ctaggacctc taaattcatg 480
caggctgcat aatgcaaatt taacctgatt aaagccttat ttctcat 527
```

<210> 53
<211> 899
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 198268.1

```
<400> 53
cagatttggg attaacaacac ttccacttag acattctgcc tgactgacct caggcatttc 60
gcactctgaa tgtcaaacc cactcattgt catctctgaa gctgctcact taattctcct 120
ctgtattctc ttaacaacc cagttgccc acccagaaac tgggagtcac gcagacctcc 180
tttctctctt actcccacac aatgagccat gaagtcagct ctttctatct taacatcact 240
gtcaaaccac cactgtatct catgcccagc gctgccagct gaatgtactc tgctcacttc 300
cttcttgat tacccatagc cccacctcat cctcctaccc ttgctttcct cctgaagtc 360
agagagatcc tactcaagag ataactgctc ctgacagccc ttattacaga actgaagtac 420
tctccttagc ttcatgctctg tgcccacgtg ccttggtctt ggatacaagg tactacagca 480
ctttgtccac tctccaggct tacctgtgtc attccacatg cacatcttag aaaatgccag 540
ccttagagaa ttctccctag ccccaaaatg tctttgccc gtgcaattcc ttcttctgt 600
attacccctt tccctccttc acactatctg cctggctaatt tcttatttat ccttagttca 660
agtatggcct tttctgggaa ggtgaccctc cttggccacc ccttgcatat actttgatgc 720
cctagggcac acccccttta ttccctcat agaaacagcc ttctgtaaat tgttccatga 780
caacctgtat ttcaatttgt aagaaatttg catgtactgt gagctcccca acgtcaggag 840
actgaccctt ttgatatcat tgctaagcct cattaaatga atgaatgaaa atgttaaaa 899
```

PA-0035 US

<210> 54
<211> 3575
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 978740.3

<400> 54
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tggggcccc ttttgccctgg gagttttgta gtcgcctagg gtcagcgggtg acatcccaaa 120
gggcaggccc ggcagccgcc atggtggcca aggattacc cttctacctc acggtcaaga 180
gagcgaactg cagcctggag ctacctccgg ccagcgggtc ggccaaggac gctgaggagc 240
ctagtaataa acgggtcaaa cccctttccc gagtcacgtc gctagcaaac ctcatcccgc 300
ccgtgaaggc cagccatta aagcgcttca gtcaaacctt gcagcgtctc attagcttcc 360
gcagtggag cgccttgac atcctcgccc cccgacctg gtccagaaat gccgccccct 420
cgagcacgaa acggagagat agcaagctgt ggagtggagc cttcgatgtg tgcgtcaatc 480
agatgcttac atccaaggaa atcaaacgtc aggaggcgat ctttgagctt tccaaggag 540
aagaagactt gatagaagac ttgaaattag caaaaaaggc ctatcatgac cccatgctga 600
aactctccat aatgacagaa caagagttga atcaaatatt tggaacactg gactctctaa 660
ttcctctaca tgaagagctc cttagtcagc ttcgagatgt taggaagcct gatggctcga 720
ctgaacatgt tgggtcccatc ctctgtgggt ggctcccttg cctcagctcc tatgatagct 780
actgcagcaa tcaagtagcc gccaaagctc tgctggacca caaaaagcaa gatcaccgag 840
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atttctctga tattccaaga agccgcctgg taaaataccc tctgcttctc cgagaaatct 960
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ttcagggaat tgtggcagaa atcaacacca agactggtga atctgaatgc cgctattata 1080
aagagcggct tctttacttg gaagaaggcc agaaagactc cctgatcgac agctctcgag 1140
tcttgtgttg tcatggtgaa ctgaagaaca atcggggcgt gaaactgcat gttttcctgt 1200
tccaagaagt gcttgtgatc actcgagccg tccccacaa tgagcagctt tgctaccagc 1260
tgtaccgtca gccaatcccc gtgaaagacc tcctgctgga agacctccag gatggagaag 1320
tgaggctggg tgggtccctg cgaggggcat tcagcaacaa tgagagaatt aaaaacttct 1380
tcagagtcag tttcaaaaat ggatcccaaa gtcagacca ctcgctacaa gccaatgaca 1440
ctttcaacaa acagcagtggt cttactgtta ttcgtcaagc caaagaaaca gttttgtgtg 1500
ctgccgggca agctgggggtg cttgactccg agggatcggt cctaaatccc accaccggga 1560
gcagagagct acagggagaa acaaaacttg agcagatgga ccaatcggac agtgagtcag 1620
actgtagtat ggacacgagt gaggtcagcc tcgactgtga gcgcatggaa cagacagact 1680
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cctttgtccc tagtactgta actgccaatc tgtctgtgta agctggaatc tgtggcaact 1920
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acatagattg tttgaagagt ccttctctct gtgcttctgt accactttcc cagctcttag 2100
atgtggtagc taaagggcac ggaatttaga cggccttgta aatagggcat gaggaactca 2160
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aagaatgtat taggacataa aatagaggct gaccttaaaa gggccaggac agaagcggct 2400
gccagctctg aatctttaac tgaaatgcac atggcaccag gaggtgtctc tcatagttgg 2460
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gaatgaagca acaaggaaga gagaccatga ctctatcgat gacactgttt atagaaacac 2640
aggagaggaa gaatttgga tgaaaagcac ttcgtcagaa ccttctgtgg gagccattga 2700
gagaaaagca tgggtccagt ccttctgaga aaggccagag ctttgggctt tcctgctctg 2760

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```
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tctccagagg ccaatttcat taactctgat taattagaat cagctagcca gattagtaac 2880
ctctttgtcc agccttgatt tacagtgcag ggtaaagtgc agacctaaa aacagctaag 2940
tacctagaag agtccctgc aagtgtaaat attaaggatg acctgtgcaa aattataccc 3000
acaccagcac tagtggtaat tattctaaat tattgccaaa aagttttttt taatctgtct 3060
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ttattttttg aaaacaagga tattgtgacg aattttaccc tgtaaaacat atttctgtat 3240
ttataggtct taaacatgat gaattttttc tattacaagt ttatttaaaa ctgctttctc 3300
aagtcgttat tgatacagca agtgaacctg ctgcagacag aagcagagga aagccaagaa 3360
cagcctttat tgggtgaagaa aagaatgaat gattctttgt aggcgccatc agccactttt 3420
agaagccatc agccagtgtg ttgggaaaag aggtttgtca agtgttggcc tatgggaagg 3480
tgggtcaatga atgttttgat gaaatgaatg tttttgtata atggccttaa acttttctgg 3540
aagtatttca aataaattac attattaagt caaaa 3575
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<210> 55
<211> 1025
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 400197.1

<220>
<221> unsure
<222> 574-662, 749-830
<223> a, t, c, g, or other

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<400> 55
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aggatctacc acagcctggt taaaatatga ccagaaatgt ggctgctgga gtagctagat 180
gaaatataga ccacactgat aaaaaaaaaa cttactcttt ttcccttcct gttattttatt 240
gccaacaccc ttttcaagga tctgtccttt tggagaattt ttgtactttg tctccttcct 300
ttttctgttt ttctagcatg ttctcattta agaataagca aactatggcc tgcaagccaa 360
atctgacctc caacctgttt ttgtaaataa agctttattg taacacagcc atgcccattt 420
gtttacatat catctatggc tgctttcatg cctagaatgg cagagttgat ttgagtacag 480
ttggccccctg tctctgtggg ttccacattc atgatttagt caacctcaga taaaaaatat 540
ttgagggaga aaaaacaaaa gtaatacaaa tgannnnnnn nnnnnnnnnn nnnnnnnnnn 600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nntcctgtgg agccctgaaa tgggaggagg aaaaaagtat acaggtggat gtgtgtaggt 720
tgtatgtaaa tactacactg ttttataann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn actgtagttg 840
tcacagagac catattactc acagtgccta aaatatttac tcttttacat aaaaagtttg 900
ccgccttcta cttctcttac tatttctage aaagtaccag actaatttct ccttcctctc 960
tccctccaat ttgtcacgaa caaacttttg tgcgtgtgta taaaatacaa tatacacaaa 1020
ttacc 1025
```

<210> 56
<211> 586
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

PA-0035 US

<223> Incyte ID No: 235687.5c

<220>

<221> unsure

<222> 5, 45, 49, 127, 133, 159

<223> a, t, c, g, or other

<400> 56

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ttgatgncac ttncctgtca acttcgcact aactccagnt agttggagcc caggtaccag 180
atcatcagtc aattaagtta agtaatctag gtgagaataa acactatgag gttgcaaaga 240
aatgcgttga ggatttggca ctctacttaa aaccactaag tggaggtaaa ggtgtagcta 300
gcttgaacca gagtgcactg agccgtccaa tgcaaaggaa actggtgaca cttgtaaact 360
gtcaactggt ggaggaagaa ggtcgtgtaa gagccatgag agcagctcgt tcccttgagg 420
aaagaactgt aacagaactg atattacagc accagaacct tcagcagttg tctgccaatc 480
tatgggccgc tgtcagggct cgaggatgcc agtttttagg gccagctatg caagaagagg 540
ccttgaagct ggtgtactgg cattagaaga tggttctgcc ctctca 586
```

<210> 57

<211> 2660

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2797839CB1

<400> 57

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agcggggggc aggcgcgaaag gcccgggaagc agaaggggtgc cgagacagaa ctctgcagat 180
tcttgccctgc agtaagtgcg gaaaattcca agaggctgtc tagtcgtgct cgaaagaggg 240
cagccaagag gagattgggc tctgttgaag cccctaagac aaataagtct cctgaggcca 300
aaccattgcc tggaaagcta ccaaaaggga tctctgcagg agctgtccag acagctggta 360
agaagggacc ccagtcctta tttaattgct ctcgaggcaa gaagcgccca gcacctggca 420
gtgatgagga agaggaggag gaagactctg aagaagatgg tatggtgaac cacggggacc 480
tctggggctc cgaggacgat gctgatacgg tagatgacta tggagctgac tccaactctg 540
aggatgagga ggaaggtgaa gcgttgctgc ccattgaaag agctgctcgg aagcagaagg 600
cccgggaagc tgctgctggg atccagtggg gtgaagagga gaccgaggac gaggaggaag 660
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gtgatttttg ggctcagcgg gaggaagggc ggtctcgttc tgaatacctg aaccggctca 900
agaaggatct ggccatttac tactcctatg gagacttctt gcttggcaag ctcatggacc 960
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gtgggggttaa cctggatccc ctgggcaagt ggtcaaagac tggactagtg gtgtatgatt 1140
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tgatccttgc caatgacgcc aatgctgagc ggctcaagag tgttgtgggc aacttgcata 1380
ggctgggagt caccaacacc attatcagcc actatgatgg gcgccagttc cccaaggtgg 1440
tggggggctt tgaccgagta ctgctggatg ctccctgcag tggcactggg gtcacttcca 1500
aggatccagc cgtgaagact aacaaggatg agaaggacat cctgcgctgt gctcacctcc 1560
agaaggagtt gctcctgagt gctattgact ctgtcaatgc gacctccaag acaggaggct 1620
```

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ctcataccca caatatggat gggttcttca ttgccaagtt caagaaattt tccaattcta 1860
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gggccaaggg ggttgagaag cagcagttgc cagagcagcc ttttgagaaa gctgccttcc 2400
agaaacagaa tgataccccc aaggggcctc agcctccac tgtgtctccc atccgttcca 2460
gccgcccccc accagcaaag aggaagaaat ctcagtcag gggcaacagc cagctgctgc 2520
tatcttagat ggttgaaaac tagacgggtg gctcactgcc attgtcacca ggttggaact 2580
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aaaacctctg aaaaaaaaaa 2660
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<210> 58

<211> 812

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2797839CD1

<400> 58

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 20          25          30
Phe Leu Pro Ala Val Ser Asp Glu Asn Ser Lys Arg Leu Ser Ser
 35          40          45
Arg Ala Arg Lys Arg Ala Ala Lys Arg Arg Leu Gly Ser Val Glu
 50          55          60
Ala Pro Lys Thr Asn Lys Ser Pro Glu Ala Lys Pro Leu Pro Gly
 65          70          75
Lys Leu Pro Lys Gly Ile Ser Ala Gly Ala Val Gln Thr Ala Gly
 80          85          90
Lys Lys Gly Pro Gln Ser Leu Phe Asn Ala Pro Arg Gly Lys Lys
 95          100         105
Arg Pro Ala Pro Gly Ser Asp Glu Glu Glu Glu Glu Glu Asp Ser
 110         115         120
Glu Glu Asp Gly Met Val Asn His Gly Asp Leu Trp Gly Ser Glu
 125         130         135
Asp Asp Ala Asp Thr Val Asp Asp Tyr Gly Ala Asp Ser Asn Ser
 140         145         150
Glu Asp Glu Glu Glu Gly Glu Ala Leu Leu Pro Ile Glu Arg Ala
 155         160         165
Ala Arg Lys Gln Lys Ala Arg Glu Ala Ala Ala Gly Ile Gln Trp
 170         175         180
Ser Glu Glu Glu Thr Glu Asp Glu Glu Glu Glu Lys Glu Val Thr
 185         190         195
Pro Glu Ser Gly Pro Pro Lys Val Glu Glu Ala Asp Gly Gly Leu
```

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Gln Ile Asn Val	200	205	210
Asp Glu Glu Pro Phe	215	220	225
Glu Met Glu Gln	230	235	240
Asp Ala Gln Ala Pro	245	250	255
Lys Arg Ile Gln	260	265	270
Asp Ile Val Gly Ile	275	280	285
Gln Arg Glu Glu	290	295	300
Gly Arg Ser Arg Ser	305	310	315
Lys Lys Asp Leu	320	325	330
Ala Ile Tyr Tyr Ser	335	340	345
Gly Lys Leu Met	350	355	360
Asp Leu Phe Pro Leu	365	370	375
Leu Glu Ala Asn	380	385	390
Glu Val Pro Arg Pro	395	400	405
Thr Leu Lys Thr	410	415	420
Arg Gly Val Asn	425	430	435
Leu Asp Pro Leu Gly	440	445	450
Leu Val Val Tyr	455	460	465
Asp Ser Ser Val Pro	470	475	480
Tyr Leu Ala Gly	485	490	495
His Tyr Met Leu Gln	500	505	510
Pro Val Met Ala	515	520	525
Leu Ala Pro Gln Glu	530	535	540
His Glu Arg Ile Leu	545	550	555
Asp Thr Met Ala Gln	560	565	570
Met Cys Cys Ala	575	580	585
Pro Gly Gly Lys Thr	590	595	600
Met Lys Asn Thr	605	610	615
Gly Val Ile Leu Ala			
Asn Asp Ala Asn Ala			
Arg Leu Lys Ser			
Val Val Gly Asn Leu			
His Arg Leu Gly Val			
Thr Thr Ile Ile			
Ser His Tyr Asp Gly			
Arg Gln Phe Pro Lys			
Val Gly Gly Phe			
Asp Arg Val Leu Leu			
Asp Ala Pro Cys Ser			
Thr Gly Val Ile			
Ser Lys Asp Pro Ala			
Val Lys Thr Asn Lys			
Glu Lys Asp Ile			
Leu Arg Cys Ala His			
Leu Gln Lys Glu Leu			
Leu Ser Ala Ile			
Asp Ser Val Asn Ala			
Thr Ser Lys Thr Gly			
Tyr Leu Val Tyr			
Cys Thr Cys Ser Ile			
Thr Val Glu Glu Asn			
Trp Val Val Asp			
Tyr Ala Leu Lys Lys			
Arg Asn Val Arg Leu			
Pro Thr Gly Leu			
Asp Phe Gly Gln Glu			
Gly Phe Thr Arg Phe			
Glu Arg Arg Phe			
His Pro Ser Leu Arg			
Ser Thr Arg Arg Phe			
Pro His Thr His			
Asn Met Asp Gly Phe			
Phe Ile Ala Lys Phe			
Lys Phe Ser Asn			
Ser Ile Pro Gln Ser			
Gln Thr Gly Asn Ser			
Thr Ala Thr Pro			
Thr Asn Val Asp Leu			
Pro Gln Val Ile Pro			
Ser Glu Asn Ser			
Ser Gln Pro Ala Lys			
Lys Ala Lys Gly Ala			

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	620		625		630
Lys Thr Lys Gln	Gln Leu Gln Lys Gln	Gln His Pro Lys Lys	Ala		
	635		640		645
Ser Phe Gln Lys	Leu Asn Gly Ile Ser	Lys Gly Ala Asp Ser	Glu		
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Leu Ser Thr Val	Pro Ser Val Thr Lys	Thr Gln Ala Ser Ser	Ser		
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Phe Gln Asp Ser	Ser Gln Pro Ala Gly	Lys Ala Glu Gly Ile	Arg		
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Glu Pro Lys Val	Thr Gly Lys Leu Lys	Gln Arg Ser Pro Lys	Leu		
	695		700		705
Gln Ser Ser Lys	Lys Val Ala Phe Leu	Arg Gln Asn Ala Pro	Pro		
	710		715		720
Lys Gly Thr Asp	Thr Gln Thr Pro Ala	Val Leu Ser Pro Ser	Lys		
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Thr Gln Ala Thr	Leu Lys Pro Lys Asp	His His Gln Pro Leu	Gly		
	740		745		750
Arg Ala Lys Gly	Val Glu Lys Gln Gln	Leu Pro Glu Gln Pro	Phe		
	755		760		765
Glu Lys Ala Ala	Phe Gln Lys Gln Asn	Asp Thr Pro Lys Gly	Pro		
	770		775		780
Gln Pro Pro Thr	Val Ser Pro Ile Arg	Ser Ser Arg Pro Pro	Pro		
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Leu Ser

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 <212> DNA
 <213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<222> 2851

<223> a, t, c, g, or other

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<210> 61

<211> 1952

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 085596CB1

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<210> 62

<211> 525

<212> PRT

<213> Homo sapiens

<220>

PA-0035 US

<221> misc_feature

<223> Incyte ID No: 085596CD1

<400> 62

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				20						25				30
Ala	Glu	Lys	Ala	Leu	Asp	Leu	Ile	Asn	Lys	Arg	Arg	Arg	Asp	Gly
				35						40				45
Tyr	Leu	Phe	Gln	Leu	Leu	Arg	Ile	Ala	Asp	Ala	His	Leu	Asp	Arg
				50						55				60
Val	Glu	Asn	Thr	Thr	Val	Tyr	Tyr	Leu	Val	Leu	Asp	Val	Gln	Glu
				65						70				75
Ser	Asp	Cys	Ser	Val	Leu	Ser	Arg	Lys	Tyr	Trp	Asn	Asp	Cys	Glu
				80						85				90
Pro	Pro	Asp	Ser	Arg	Arg	Pro	Ser	Glu	Ile	Val	Ile	Gly	Gln	Cys
				95						100				105
Lys	Val	Ile	Ala	Thr	Arg	His	Ser	His	Glu	Ser	Gln	Asp	Leu	Arg
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Val	Ile	Asp	Phe	Asn	Cys	Thr	Thr	Ser	Ser	Val	Ser	Ser	Ala	Leu
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Ala	Asn	Thr	Lys	Asp	Ser	Pro	Val	Leu	Ile	Asp	Phe	Phe	Glu	Asp
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Thr	Glu	Arg	Tyr	Arg	Lys	Gln	Ala	Asn	Lys	Ala	Leu	Glu	Lys	Tyr
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Lys	Glu	Glu	Asn	Asp	Asp	Phe	Ala	Ser	Phe	Arg	Val	Asp	Arg	Thr
				170						175				180
Glu	Arg	Val	Ala	Arg	Val	Arg	Gly	Gly	Glu	Gly	Thr	Gly	Tyr	Phe
				185						190				195
Val	Asp	Phe	Ser	Val	Arg	Asn	Cys	Pro	Arg	His	His	Phe	Pro	Arg
				200						205				210
His	Pro	Asn	Val	Phe	Gly	Phe	Cys	Arg	Ala	Asp	Leu	Phe	Tyr	Asp
				215						220				225
Val	Glu	Ala	Leu	Asp	Leu	Glu	Ser	Pro	Lys	Asn	Leu	Val	Ile	Asn
				230						235				240
Cys	Glu	Val	Phe	Asp	Pro	Gln	Glu	His	Glu	Asn	Ile	Asn	Gly	Val
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Pro	Pro	His	Leu	Gly	His	Pro	Phe	His	Trp	Gly	Gly	His	Glu	Arg
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Ser	Ser	Thr	Thr	Lys	Pro	Pro	Phe	Lys	Pro	His	Gly	Ser	Arg	Asp
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His	His	His	Pro	His	Lys	Pro	His	Glu	His	Gly	Pro	Pro	Pro	Pro
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Pro	Asp	Glu	Arg	Asp	His	Ser	His	Gly	Pro	Pro	Leu	Pro	Gln	Gly
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Pro	Pro	Pro	Leu	Leu	Pro	Met	Ser	Cys	Ser	Ser	Cys	Gln	His	Ala
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Thr	Phe	Gly	Thr	Asn	Gly	Ala	Gln	Arg	Arg	Ser	His	Asn	Asn	Asn
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Ser	Ser	Asp	Leu	His	Pro	His	Lys	His	His	Ser	His	Glu	Gln	His
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Pro	His	Gly	His	His	Pro	His	Ala	His	His	Pro	His	Glu	His	Asp
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Thr	His	Arg	Gln	His	Pro	His	Gly	His	His	Pro	His	Gly	His	His
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Pro	His	Gly	His	His	Pro	His	Gly	His	His	Pro	His	Gly	His	His
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Pro	His	Cys	His	Asp	Phe	Gln	Asp	Tyr	Gly	Pro	Cys	Asp	Pro	Pro
				410					415					420
Pro	His	Asn	Gln	Gly	His	Cys	Cys	His	Gly	His	Gly	Pro	Pro	Pro
				425					430					435
Gly	His	Leu	Arg	Arg	Arg	Gly	Pro	Gly	Lys	Gly	Pro	Cys	Pro	Phe
				440					445					450
His	Cys	Arg	Gln	Ile	Gly	Ser	Val	Tyr	Arg	Leu	Pro	Pro	Leu	Arg
				455					460					465
Lys	Gly	Glu	Val	Leu	Pro	Leu	Pro	Glu	Ala	Asn	Phe	Pro	Ser	Phe
				470					475					480
Pro	Leu	Pro	His	His	Lys	His	Pro	Leu	Lys	Pro	Asp	Ile	Gln	Pro
				485					490					495
Phe	Pro	Gln	Ser	Val	Ser	Glu	Ser	Cys	Pro	Gly	Lys	Phe	Lys	Ser
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 <213> Homo sapiens

<220>
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gtaattaacc actct

1635

<210> 64
<211> 217
<212> PRT
<213> Homo sapiens

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35 40 45
Thr Tyr Ser Ser Ala Gly Asp Ser Val Tyr Thr Tyr Phe Ser Ala
50 55 60
Val Ala Gly Gln Asp Gly Glu Val Asp Ala Glu Glu Leu Gln Arg
65 70 75
Cys Leu Thr Gln Ser Gly Ile Asn Gly Thr Tyr Ser Pro Phe Ser
80 85 90
Leu Glu Thr Cys Arg Ile Met Ile Ala Met Leu Asp Arg Asp His
95 100 105
Thr Gly Lys Met Gly Phe Asn Ala Phe Lys Glu Leu Trp Ala Ala
110 115 120
Leu Asn Ala Trp Lys Glu Asn Phe Met Thr Val Asp Gln Asp Gly
125 130 135
Ser Gly Thr Val Glu His His Glu Leu Arg Gln Ala Ile Gly Leu
140 145 150
Met Gly Tyr Arg Leu Ser Pro Gln Thr Leu Thr Thr Ile Val Lys
155 160 165
Arg Tyr Ser Lys Asn Gly Arg Ile Phe Phe Asp Asp Tyr Val Ala
170 175 180
Cys Cys Val Lys Leu Arg Ala Leu Thr Asp Phe Phe Arg Lys Arg
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<211> 2977
<212> DNA
<213> Homo sapiens

<220>
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 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 3603037CD1

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<400> 66

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Leu	Gln	Gly	Val	Thr	Ser	Pro	Ala	Ser	Thr	Thr	Ala	Ser	Ser	Ser
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Val	Thr	Ser	Ala	Ser	Pro	Asn	Pro	Leu	Ala	Thr	Gly	Pro	Leu	Gly
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Val	Cys	Thr	Met	Ser	Gln	Thr	Gln	Pro	Asp	Leu	Asp	His	Leu	Tyr
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Ser	Lys	Thr	Pro	Val	His	Glu	Arg	Pro	Tyr	Pro	Cys	Pro	Ala	Glu
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Gly	Cys	Asp	Arg	Arg	Phe	Ser	Arg	Ser	Asp	Glu	Leu	Thr	Arg	His
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Ile	Arg	Ile	His	Thr	Gly	His	Lys	Pro	Phe	Gln	Cys	Arg	Ile	Cys
				365					370					375
Met	Arg	Asn	Phe	Ser	Arg	Ser	Asp	His	Leu	Thr	Thr	His	Ile	Arg
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Thr	His	Thr	Gly	Glu	Lys	Pro	Phe	Ala	Cys	Asp	Tyr	Cys	Gly	Arg
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<211> 824

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 088564CB1

<400> 67

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<211> 96

<212> PRT

<213> Homo sapiens

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<223> Incyte ID No: 088564CD1

<400> 68

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Asp Cys Cys Leu Gly Tyr Thr Asp Arg Ile Leu His Pro Lys Phe
                35                40                45
Ile Val Gly Phe Thr Arg Gln Leu Ala Asn Glu Gly Cys Asp Ile
                50                55                60
Asn Ala Ile Ile Phe His Thr Lys Lys Lys Leu Ser Val Cys Ala
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PA-0035 US

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<212> DNA
<213> Homo sapiens

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<210> 70
<211> 5144
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 407096.2

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<223> a, t, c, g, or other

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<211> 2752

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 209265.54

<400> 71

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<223> Incyte ID No: 701484CB1

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<212> PRT

<213> Homo sapiens

<220>

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<223> Incyte ID No: 701484CD1

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Phe Thr Asp Thr Glu Arg Leu Ile Gly Asp Ala Ala Lys Asn Gln
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Val Ala Met Asn Pro Gln Asn Thr Val Phe Asp Ala Lys Arg Leu
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Ile Gly Arg Lys Phe Asn Asp Pro Val Val Gln Ala Asp Met Lys
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Tyr Phe Asn Asp Ser Gln Arg Gln Ala Thr Lys Asp Ala Gly Val
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Ile Ala Gly Leu Asn Val Leu Arg Ile Ile Asn Glu Pro Thr Ala
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          185          190          195
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<223> Incyte ID No: 3766715CB1

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<223> Incyte ID No: 3766715CD1

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Ser Pro Ser Ser Pro Pro Pro Pro Asn Leu Phe Phe Phe Pro Leu

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	20		25		30
Gln Ile Phe Pro Phe	Pro Phe Thr Ser Phe	Pro Ser His Leu Leu			
	35		40		45
Ser Leu Thr Pro Pro	Lys Ala Cys Tyr Leu	Lys Ala Ile Glu Thr			
	50		55		60
Gln Pro Asn Phe Ala	Val Ala Trp Ser Asn	Leu Gly Cys Val Phe			
	65		70		75
Asn Ala Gln Gly Glu	Ile Trp Leu Ala Ile	His His Phe Glu Lys			
	80		85		90
Ala Val Thr Leu Asp	Pro Asn Phe Leu Asp	Ala Tyr Ile Asn Leu			
	95		100		105
Gly Asn Val Leu Lys	Glu Ala Arg Ile Phe	Asp Arg Ala Val Ala			
	110		115		120
Ala Tyr Leu Arg Ala	Leu Ser Leu Ser Pro	Asn His Ala Val Val			
	125		130		135
His Gly Asn Leu Ala	Cys Val Tyr Tyr Glu	Gln Gly Leu Ile Asp			
	140		145		150
Leu Ala Ile Asp Thr	Tyr Arg Arg Ala Ile	Glu Leu Gln Pro His			
	155		160		165
Phe Pro Asp Ala Tyr	Cys Asn Leu Ala Asn	Ala Leu Lys Glu Lys			
	170		175		180
Gly Ser Val Ala Glu	Ala Glu Asp Cys Tyr	Asn Thr Ala Leu Arg			
	185		190		195
Leu Cys Pro Thr His	Ala Asp Ser Leu Asn	Asn Leu Ala Asn Ile			
	200		205		210
Lys Arg Glu Gln Gly	Asn Ile Glu Glu Ala	Val Arg Leu Tyr Arg			
	215		220		225
Lys Ala Leu Glu Val	Phe Pro Glu Phe Ala	Ala Ala His Ser Asn			
	230		235		240
Leu Ala Ser Val Leu	Gln Gln Gln Gly Lys	Leu Gln Glu Ala Leu			
	245		250		255
Met His Tyr Lys Glu	Ala Ile Arg Ile Ser	Pro Thr Phe Ala Asp			
	260		265		270
Ala Tyr Ser Asn Met	Gly Asn Thr Leu Lys	Glu Met Gln Asp Val			
	275		280		285
Gln Gly Ala Leu Gln	Cys Tyr Thr Arg Ala	Ile Gln Ile Asn Pro			
	290		295		300
Ala Phe Ala Asp Ala	His Ser Asn Leu Ala	Ser Ile His Lys Asp			
	305		310		315
Ser Gly Asn Ile Pro	Glu Ala Ile Ala Ser	Tyr Arg Thr Ala Leu			
	320		325		330
Lys Leu Lys Pro Asp	Phe Pro Asp Ala Tyr	Cys Asn Leu Ala His			
	335		340		345
Cys Leu Gln Ile Val	Cys Asp Trp Thr Asp	Tyr Asp Glu Arg Met			
	350		355		360
Lys Lys Leu Val Ser	Ile Val Ala Asp Gln	Leu Glu Lys Asn Arg			
	365		370		375
Leu Pro Ser Val His	Pro His His Ser Met	Leu Tyr Pro Leu Ser			
	380		385		390
His Gly Phe Arg Lys	Ala Ile Ala Glu Arg	His Gly Asn Leu Cys			
	395		400		405
Leu Asp Lys Ile Asn	Val Leu His Lys Pro	Pro Tyr Glu His Pro			
	410		415		420
Lys Asp Leu Lys Leu	Ser Asp Gly Arg Leu	Arg Val Gly Tyr Val			
	425		430		435
Ser Ser Asp Phe Gly	Asn His Pro Thr Ser	His Leu Met Gln Ser			

	440		445		450
Ile Pro Gly Met His Asn Pro Asp Lys		Phe Glu Val Phe Cys Tyr			
	455		460		465
Ala Leu Ser Pro Asp Asp Gly Thr Asn		Phe Arg Val Lys Val Met			
	470		475		480
Ala Glu Ala Asn His Phe Ile Asp Leu		Ser Gln Ile Pro Cys Asn			
	485		490		495
Gly Lys Ala Ala Asp Arg Ile His Gln		Asp Gly Ile His Ile Leu			
	500		505		510
Val Asn Met Asn Gly Tyr Thr Lys Gly		Ala Arg Asn Glu Leu Phe			
	515		520		525
Ala Leu Arg Pro Ala Pro Ile Gln Ala		Met Trp Leu Gly Tyr Pro			
	530		535		540
Gly Thr Ser Gly Ala Leu Phe Met Asp		Tyr Ile Ile Thr Asp Gln			
	545		550		555
Glu Thr Ser Pro Ala Glu Val Ala Glu		Gln Tyr Ser Glu Lys Leu			
	560		565		570
Ala Tyr Met Pro His Thr Phe Phe Ile		Gly Asp His Ala Asn Met			
	575		580		585
Phe Pro His Leu Lys Lys Lys Ala Val		Ile Asp Phe Lys Ser Asn			
	590		595		600
Gly His Ile Tyr Asp Asn Arg Ile Val		Leu Asn Gly Ile Asp Leu			
	605		610		615
Lys Ala Phe Leu Asp Ser Leu Pro Asp		Val Lys Ile Val Lys Met			
	620		625		630
Lys Cys Pro Asp Gly Gly Asp Asn Ala		Asp Ser Ser Asn Thr Ala			
	635		640		645
Leu Asn Met Pro Val Ile Pro Met Asn		Thr Ile Ala Glu Ala Val			
	650		655		660
Ile Glu Met Ile Asn Arg Gly Gln Ile		Gln Ile Thr Ile Asn Gly			
	665		670		675
Phe Ser Ile Ser Asn Gly Leu Ala Thr		Thr Gln Ile Asn Asn Lys			
	680		685		690
Ala Ala Thr Gly Glu Glu Val Pro Arg		Thr Ile Ile Val Thr Thr			
	695		700		705
Arg Ser Gln Tyr Gly Leu Pro Glu Asp		Ala Ile Val Tyr Cys Asn			
	710		715		720
Phe Asn Gln Leu Tyr Lys Ile Asp Pro		Ser Thr Leu Gln Met Trp			
	725		730		735
Ala Asn Ile Leu Lys Arg Val Pro Asn		Ser Val Leu Trp Leu Leu			
	740		745		750
Arg Phe Pro Ala Val Gly Glu Pro Asn		Ile Gln Gln Tyr Ala Gln			
	755		760		765
Asn Met Gly Leu Pro Gln Asn Arg Ile		Ile Phe Ser Pro Val Ala			
	770		775		780
Pro Lys Glu Glu His Val Arg Arg Gly		Gln Leu Ala Asp Val Cys			
	785		790		795
Leu Asp Thr Pro Leu Cys Asn Gly His		Thr Thr Gly Met Asp Val			
	800		805		810
Leu Trp Ala Gly Thr Pro Met Val Thr		Met Pro Gly Glu Thr Leu			
	815		820		825
Ala Ser Arg Val Ala Ala Ser Gln Leu		Thr Cys Leu Gly Cys Leu			
	830		835		840
Glu Leu Ile Ala Lys Asn Arg Gln Glu		Tyr Glu Asp Ile Ala Val			
	845		850		855
Lys Leu Gly Thr Asp Leu Glu Tyr Leu		Lys Lys Val Arg Gly Lys			

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	860		865		870
Val Trp Lys Gln Arg Ile Ser Ser Pro	Leu Phe Asn Thr Lys Gln				
	875		880		885
Tyr Thr Met Glu Leu Glu Arg Leu Tyr	Leu Gln Met Trp Glu His				
	890		895		900
Tyr Ala Ala Gly Asn Lys Pro Asp His	Met Ile Lys Pro Val Glu				
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Val Thr Glu Ser Ala					
	920				

<210> 77

<211> 3428

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2049950CB1

<400> 77

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tgagctggga	ggaaaccaag	cgccatgccg	accacgtgcg	gcggcacggg	atcctccagt	180
tcctgcacat	ctaccacgcc	gtcaaggacc	ggcacaagga	cgttctcaag	tggggcgatg	240
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ccaagtccct	cttctttcca	gatgaagcaa	taaacaagca	ccctcgcttc	agtaccttaa	660
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<210> 78

<211> 637

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2049950CD1

<400> 78

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Leu His Ile Tyr His Ala Val Lys Asp Arg His Lys Asp Val Leu
          35          40          45
Lys Trp Gly Asp Glu Val Glu Tyr Met Leu Val Ser Phe Asp His
          50          55          60
Glu Asn Lys Lys Val Arg Leu Val Leu Ser Gly Glu Lys Val Leu
          65          70          75
Glu Thr Leu Gln Glu Lys Gly Glu Arg Thr Asn Pro Asn His Pro
          80          85          90
Thr Leu Trp Arg Pro Glu Tyr Gly Ser Tyr Met Ile Glu Gly Thr
          95          100          105
Pro Gly Gln Pro Tyr Gly Gly Thr Met Ser Glu Phe Asn Thr Val
          110          115          120
Glu Ala Asn Met Arg Lys Arg Arg Lys Glu Ala Thr Ser Ile Leu
          125          130          135
Glu Glu Asn Gln Ala Leu Cys Thr Ile Thr Ser Phe Pro Arg Leu
          140          145          150
Gly Cys Pro Gly Phe Thr Leu Pro Glu Val Lys Pro Asn Pro Val
          155          160          165
Glu Gly Gly Ala Ser Lys Ser Leu Phe Phe Pro Asp Glu Ala Ile
          170          175          180

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Asn	Lys	His	Pro	Arg	Phe	Ser	Thr	Leu	Thr	Arg	Asn	Ile	Arg	His
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Arg	Arg	Gly	Glu	Lys	Val	Val	Ile	Asn	Val	Pro	Ile	Phe	Lys	Asp
				200					205					210
Lys	Asn	Thr	Pro	Ser	Pro	Phe	Ile	Glu	Thr	Phe	Thr	Glu	Asp	Asp
				215					220					225
Glu	Ala	Ser	Arg	Ala	Ser	Lys	Pro	Asp	His	Ile	Tyr	Met	Asp	Ala
				230					235					240
Met	Gly	Phe	Gly	Met	Gly	Asn	Cys	Cys	Leu	Gln	Val	Thr	Phe	Gln
				245					250					255
Ala	Cys	Ser	Ile	Ser	Glu	Ala	Arg	Tyr	Leu	Tyr	Asp	Gln	Leu	Ala
				260					265					270
Thr	Ile	Cys	Pro	Ile	Val	Met	Ala	Leu	Ser	Ala	Ala	Ser	Pro	Phe
				275					280					285
Tyr	Arg	Gly	Tyr	Val	Ser	Asp	Ile	Asp	Cys	Arg	Trp	Gly	Val	Ile
				290					295					300
Ser	Ala	Ser	Val	Asp	Asp	Arg	Thr	Arg	Glu	Glu	Arg	Gly	Leu	Glu
				305					310					315
Pro	Leu	Lys	Asn	Asn	Asn	Tyr	Arg	Ile	Ser	Lys	Ser	Arg	Tyr	Asp
				320					325					330
Ser	Ile	Asp	Ser	Tyr	Leu	Ser	Lys	Cys	Gly	Glu	Lys	Tyr	Asn	Asp
				335					340					345
Ile	Asp	Leu	Thr	Ile	Asp	Lys	Glu	Ile	Tyr	Glu	Gln	Leu	Leu	Gln
				350					355					360
Glu	Gly	Ile	Asp	His	Leu	Leu	Ala	Gln	His	Val	Ala	His	Leu	Phe
				365					370					375
Ile	Arg	Asp	Pro	Leu	Thr	Leu	Phe	Glu	Glu	Lys	Ile	His	Leu	Asp
				380					385					390
Asp	Ala	Asn	Glu	Ser	Asp	His	Phe	Glu	Asn	Ile	Gln	Ser	Thr	Asn
				395					400					405
Trp	Gln	Thr	Met	Arg	Phe	Lys	Pro	Pro	Pro	Pro	Asn	Ser	Asp	Ile
				410					415					420
Gly	Trp	Arg	Val	Glu	Phe	Arg	Pro	Met	Glu	Val	Gln	Leu	Thr	Asp
				425					430					435
Phe	Glu	Asn	Ser	Ala	Tyr	Val	Val	Phe	Val	Val	Leu	Leu	Thr	Arg
				440					445					450
Val	Ile	Leu	Ser	Tyr	Lys	Leu	Asp	Phe	Leu	Ile	Pro	Leu	Ser	Lys
				455					460					465
Val	Asp	Glu	Asn	Met	Lys	Val	Ala	Gln	Lys	Arg	Asp	Ala	Val	Leu
				470					475					480
Gln	Gly	Met	Phe	Tyr	Phe	Arg	Lys	Asp	Ile	Cys	Lys	Gly	Gly	Asn
				485					490					495
Ala	Val	Val	Asp	Gly	Cys	Gly	Lys	Ala	Gln	Asn	Ser	Thr	Glu	Leu
				500					505					510
Ala	Ala	Glu	Glu	Tyr	Thr	Leu	Met	Ser	Ile	Asp	Thr	Ile	Ile	Asn
				515					520					525
Gly	Lys	Glu	Gly	Val	Phe	Pro	Gly	Leu	Ile	Pro	Ile	Leu	Asn	Ser
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Tyr	Leu	Glu	Asn	Met	Glu	Val	Asp	Val	Asp	Thr	Arg	Cys	Ser	Ile
				545					550					555
Leu	Asn	Tyr	Leu	Lys	Leu	Ile	Lys	Lys	Arg	Ala	Ser	Gly	Glu	Leu
				560					565					570
Met	Thr	Val	Ala	Arg	Trp	Met	Arg	Glu	Phe	Ile	Ala	Asn	His	Pro
				575					580					585
Asp	Tyr	Lys	Gln	Asp	Ser	Val	Ile	Thr	Asp	Glu	Met	Asn	Tyr	Ser
				590					595					600

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Leu Ile Leu Lys Cys Asn Gln Ile Ala Asn Glu Leu Cys Glu Cys
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Pro Glu Leu Leu Gly Ser Ala Phe Arg Lys Val Lys Tyr Ser Gly
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Ser Lys Thr Asp Ser Ser Asn
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<210> 79

<211> 1093

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 231588.6c

<400> 79

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acttaggacc ttgggtatatt atattagttg tctataggca gtggaacata attaaatacc 180
atcttctagt taaattccacc taagacaact tttaaacaaa actcttgctg taaatgttgc 240
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tgacattcca agcctgcagt atatctgagg ccagatacct ttatgatcag ttggctacta 420
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acattgattg tcgctgggga gtgatttctg catctgtaga tgatagaact cgggaggagc 540
gaggactgga gccattgaag aacaataact ataggatcag taaatcccga tatgactcaa 600
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ctaattgagtc tgaccatttt gagaatattc agtccacaaa ttggcagaca atgagattta 840
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<210> 80

<211> 834

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 152298.2

<220>

<221> unsure

<222> 343-385

<223> a, t, c, g, or other

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tcagcctcca agatgcctgc agtcatccct gcctcctggg attcatatcc tcctccacat 240
tgtgccagga ttgggctctg tggccaaaaa gaaaacagca gatgagagga cgtgtctctt 300
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ctgaggaaag caaactacta tgttgtgagc agcccaatgg agaggcccac aagacaacga 480
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agcagccacc ttgagaaatg cagtgatgat gctgagtggc aaggcagaag gcacagggtc 780
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<210> 81

<211> 351

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 199507.1

<400> 81

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acattcagaa aaactcagga tcatacccat aaaccactg tttagatttt aaaaagtcca 300
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<211> 919

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<213> Homo sapiens

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<223> Incyte ID No: 1434821CB1

<220>

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<223> a, t, c, g, or other

<400> 82

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tgactcgggg tcgccttttg agcagagagg aggcaatggc caccatggag aacaaggaga 420
tctgcgcctt ggtcctgggt tccatgctgg ccctcggcac cctggccgag gccagagag 480
agacgtgtac agtggccccc cgtgaaagac agaattgtgg ttttcttggt gtcacgccct 540
cccagtgtgc aaataagggc tgctgtttcg acgacaccgt tcgtgggggt ccctgggtget 600
tctatcctaa taccatcgac gtccctccag aagaggagtg tgaattttag acatttctgc 660
agggatctgc ctgcacacct acgcgggtgcc gtccccagca cggtgattag tcccagagct 720
cggctgccac ctccaccgga cacctcagac acgcttctgc agctgtgcct cggctcacia 780
```

PA-0035 US

cacagattga ctgctctgac tttgactact caaaattggc ctaaaaatta aaagagatcg 840
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gcggcnncca ctaatgaat 919

<210> 83

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1434821CD1

<400> 83

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Ser	Met	Leu	Ala	Leu	Gly	Thr	Leu	Ala	Glu	Ala	Gln	Thr	Glu	Thr
				20					25					30
Cys	Thr	Val	Ala	Pro	Arg	Glu	Arg	Gln	Asn	Cys	Gly	Phe	Pro	Gly
				35					40					45
Val	Thr	Pro	Ser	Gln	Cys	Ala	Asn	Lys	Gly	Cys	Cys	Phe	Asp	Asp
				50					55					60
Thr	Val	Arg	Gly	Val	Pro	Trp	Cys	Phe	Tyr	Pro	Asn	Thr	Ile	Asp
				65					70					75
Val	Pro	Pro	Glu	Glu	Glu	Cys	Glu	Phe						
				80										

<210> 84

<211> 2734

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 289671.27

<400> 84

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attggagtgg	agaactggag	agaaagggtt	gtcactgtcc	agcactacac	agctgcaggc	180
acacagatgg	tacacattcc	cagaaagaca	cataggtaga	cacgtggctg	tacacccatg	240
cacacacaaa	caatcacgca	tacctgtagg	catgtgtgta	aacaccacac	tgcaccacac	300
cccacatgcc	tggcagtaca	cagaactgta	tgcattccatt	tgtgccaggc	tggggccttg	360
agtgatagga	aaggggtctg	tgatgggtag	atagtgtggt	tggagacacg	gattttcttc	420
tgaacaaagt	ccctccccta	catgggtggac	atgggatgag	acggccttca	gttacttctc	480
cttgaccccc	agggctgcct	gccgcctcat	gtaggacagg	atgtccatct	tgacgttgct	540
gaccgtggtc	cgggtggtgcc	agcgcattgat	gggtatacca	tctggcccca	ccaggaactt	600
ctcaaattcc	agcggatgtc	gtgaaccttc	atgggttccc	agaagaggcg	gtcagatgta	660
cccaggagct	ccgaggtggg	aggacaggag	ttcttttagga	aagtgtagaa	tttctgctct	720
ttctctccat	tgacatcccc	tttctcaaag	agctggaaat	tagggacaaa	gcctccacct	780
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PA-0035 US

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cccagtaaaa gcctttctgc agcagctgaa aaaa 2734
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<210> 85

<211> 528

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1282225CB1

<400> 85

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ggaaaacttt gaagccttca tgaaggcaat cggctcgccg gaagagctca tccagaaggg 180
gaaggatata aaggggggtg cggaatcgt gcagaatggg aagcacttca agttcaccat 240
caccgctggg tccaaagtga tccaaaacga attcacggtg ggggaggaat gtgagctgga 300
gacaatgaca ggggagaaag tcaagacagt ggttcagttg gaaggtgaca ataaactggg 360
gacagctttc aaaaacatca agtctgtgac cgaactcaac ggcgacataa tcaccaatac 420
catgacattg ggtgacattg tcttcaagag aatcagcaag agaattttaa caagtctgca 480
tttcatatta ttttagtggtg taaaattaat gtaataaagt gaactttg 528
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<210> 86

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1282225CD1

PA-0035 US

<400> 86

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Glu Ala Phe Met Lys Ala Ile Gly Leu Pro Glu Glu Leu Ile Gln
  20          25          30
Lys Gly Lys Asp Ile Lys Gly Val Ser Glu Ile Val Gln Asn Gly
  35          40          45
Lys His Phe Lys Phe Thr Ile Thr Ala Gly Ser Lys Val Ile Gln
  50          55          60
Asn Glu Phe Thr Val Gly Glu Glu Cys Glu Leu Glu Thr Met Thr
  65          70          75
Gly Glu Lys Val Lys Thr Val Val Gln Leu Glu Gly Asp Asn Lys
  80          85          90
Leu Val Thr Ala Phe Lys Asn Ile Lys Ser Val Thr Glu Leu Asn
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Gly Asp Ile Ile Thr Asn Thr Met Thr Leu Gly Asp Ile Val Phe
  110         115         120
Lys Arg Ile Ser Lys Arg Ile
  125
```

<210> 87

<211> 324

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 263336.57

<400> 87

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tgtgcccagg gctgctgctg caaaggggca tcggagaagt gcagctgctg tgccctgatgt 180
gggaacagct cttctcccag atgtaaatag aacaacctgc acaacctgga tttttttaaa 240
aatacaaacac tgagccattt gctgcatttc tttttatact aaatatgtga ctgacaataa 300
aaacaatttt gacttttaaaa aaaa                                     324
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<210> 88

<211> 933

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 464689.40

<400> 88

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agatgctctg tggactgaat gccagggaat ggaagtattgc cgaaatttca tcatcacatg 180
agaaccttcc tagaatagat ccagtgtccc tgccccctgg gtcataaggta gcggaattca 240
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cctgccagct ggcaggagga ggtggcctgt gtgccttgca ggtgacaatg tgggcagctc 360
atgaaggtag gcttgaagcc ccaggcaagc ccagtgacct ggtcacagtg aagtgcctgt 420
gtgtgtaaga aactgacaga acgtgctgtc cctgcctcct gctctttcac atgtgtagat 480
cgtagctggg gtgaactact tcttgacgt ggagctgggc cgaaccacgt gtaccaagac 540
ccagcccaac ttggacaact gcccttcca tgaccagcca catctgaaaa ggaaagcatt 600
```

PA-0035 US

```
ctgtctctttc cagatctacg ctgtgccttg gcagggcaca atgaccttgt cgaaatccac 660
ctgtcaggac gcctaggggt ctgtaccggg ctggcctgtg cctatcacct cttatgcaca 720
cctcccaccc cctgtattcc cacccttgga ctgggtggcc ctgccttggg gaaggtctcc 780
ccatgtgcct gcaccaggag acagacagag aaggcagcag gcggcctttg ttgctcagca 840
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<210> 89

<211> 1788

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 155943.1

<220>

<221> unsure

<222> 32, 361, 1085, 1180, 1183, 1191, 1207, 1234, 1247, 1275, 1319,
1327-1328, 1332, 1336, 1338, 1343, 1345, 1351, 1353, 1362-1363, 1366, 1368,
1376-1378, 1380, 1383-1384, 1388, 1396, 1398-1399, 1402, 1411-1413

<223> a, t, c, g, or other

<400> 89

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acacttgggg catggttaacc caaatttcat gtgcacgggt tcccttttagc ccactgcccc 180
aatttcacat acccttcacc ctttgttccc tttgtaaaag gagtgggtatc tgttttgagc 240
tgccaattca gatgatcaga aatgctgctt tcctcagcat tgtcttggtta aaccgcatgc 300
catttggaac tttggcagtg agaagccaaa aggaagaggt gaatgacata tatatatata 360
nattcaatga aagtaaaatg tatatgctca tatactttct agttatcaga atgagttaag 420
ctttatgcca ttgggctgct gcataattta atcagaagat aaaagaaaaat ctgggcattt 480
ttagaatgtg atacatgttt ttttaaaact gttaaataatt atttcgatat ttgtctaaga 540
accggaatgt tcttaaaaatt tactaaaaca gtattgtttg aggaagagaa aactgtactg 600
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tatgctgacc agtttttggg aaataatggt ttttatagca agcaaagagc tttatggcac 1740
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<210> 90

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<211> 1111
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 243794.19c

<220>
<221> unsure
<222> 519-616, 774-963
<223> a, t, c, g, or other

<400> 90
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caacttaatg aaaccgatat ccttcgcgta ctgacggaaa cactggcggc acatattgag 180
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ggtgagtaaa atgaaatctt agaggcggtt tgggctggcc cagttgatga cgtcaccata 480
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<210> 91
<211> 961
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 243794.23

<220>
<221> unsure
<222> 739
<223> a, t, c, g, or other

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gttgggtgga agactgtgtc ttcctgtgtg tttggatgag taccagaact ttctgcgtct 180
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tcactattcg cttataaaat aatcgtccct tacaacaaaa aaagggggcg gccacttttg 600
ggtgctcagc tttctgcggc ggggttccggg ctgtattccc tttatgggcg cccctaaatt 660
tactcagggg cgggttttaa cagggccctt gggaaccccc ggtttcacat ttaccctgtg 720
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t 961
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<210> 92

<211> 3041

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 159309CB1

<400> 92

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PA-0035 US

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<211> 254

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 159309CD1

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Lys	Glu	Pro	Ile	Leu	Asn	Ile	His	Asp	Leu	Thr	Gln	Ile	His	Ser
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Cys	Cys	Cys	Pro	Cys	Cys	Gln	Arg	Leu	Leu	Leu	Thr	Arg	Lys	Lys
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80 85 90
Tyr Asp Pro Ala Asp Ile Ser Glu Gly Ser Thr Ala Leu Trp Ile
95 100 105
Asn Thr Phe Leu Gly Val Ser Thr Leu Leu Ala Leu Trp Thr Leu
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Gly Ile Ile Ser Arg Gln Ala Arg Leu His Leu Gly Glu Gln Asn
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Met Gly Ala Lys Phe Ala Leu Phe Gln Val Leu Leu Ile Leu Thr
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Met Asn Cys His Leu Leu Ile Leu Glu Thr Phe Leu Met Thr Val
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<211> 823

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<213> Homo sapiens

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<223> Incyte ID No: 403717.1

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<212> DNA

<213> Homo sapiens

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PA-0035 US

<220>

<221> unsure

<222> 502-546, 605-661

<223> a, t, c, g, or other

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<212> DNA

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<220>

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<222> 104, 2838

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<210> 101

<211> 1952

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2047630CB1

<400> 101

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<210> 102

<211> 561

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2047630CD1

<400> 102

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Ala Phe Arg Phe Glu Asn Val Asn Gly Tyr Thr Asn Cys Cys Phe
          35          40          45
Gly Phe His Arg Leu Ala Val Val Asp Pro Leu Phe Gly Met Gln
          50          55          60
Pro Ile Arg Val Lys Lys Tyr Pro Tyr Leu Trp Leu Cys Tyr Asn
          65          70          75
Gly Glu Ile Tyr Asn His Lys Lys Met Gln Gln His Phe Glu Phe
          80          85          90
Glu Tyr Gln Thr Lys Val Asp Gly Glu Ile Ile Leu His Leu Tyr
          95          100          105
Asp Lys Gly Gly Ile Glu Gln Thr Ile Cys Met Leu Asp Gly Val
          110          115          120
Phe Ala Phe Val Leu Leu Asp Thr Ala Asn Lys Lys Val Phe Leu
          125          130          135
Gly Arg Asp Thr Tyr Gly Val Arg Pro Leu Phe Lys Ala Met Thr
          140          145          150
Glu Asp Gly Phe Leu Ala Val Cys Ser Glu Ala Lys Gly Leu Val
          155          160          165
Thr Leu Lys His Ser Ala Thr Pro Phe Leu Lys Val Glu Pro Phe

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Leu Pro Gly His Tyr Glu Val Leu Asp	170	Leu Lys Pro Asn Gly Lys	175	180
Val Ala Ser Val Glu Met Val Lys Tyr	185	His His Cys Arg Asp Glu	190	195
Pro Leu His Ala Leu Tyr Asp Asn Val	200	Glu Lys Leu Phe Pro Gly	205	210
Phe Glu Ile Glu Thr Val Lys Asn Asn	215	Leu Arg Ile Leu Phe Asn	220	225
Asn Ala Val Lys Lys Arg Leu Met Thr	230	Asp Arg Arg Ile Gly Cys	235	240
Leu Leu Ser Gly Gly Leu Asp Ser Ser	245	Leu Val Ala Ala Thr Leu	250	255
Leu Lys Gln Leu Lys Glu Ala Gln Val	260	Gln Tyr Pro Leu Gln Thr	265	270
Phe Ala Ile Gly Met Glu Asp Ser Pro	275	Asp Leu Leu Ala Ala Arg	280	285
Lys Val Ala Asp His Ile Gly Ser Glu	290	His Tyr Glu Val Leu Phe	295	300
Asn Ser Glu Glu Gly Ile Gln Ala Leu	305	Asp Glu Val Ile Phe Ser	310	315
Leu Glu Thr Tyr Asp Ile Thr Thr Val	320	Arg Ala Ser Val Gly Met	325	330
Tyr Leu Ile Ser Lys Tyr Ile Arg Lys	335	Leu Thr Gln Gly Tyr Ile	340	345
Ile Phe Ser Gly Glu Gly Ser Asp Glu	350	Leu Thr Gln Gly Tyr Ile	355	360
Tyr Phe His Lys Ala Pro Ser Pro Glu	365	Lys Ala Glu Glu Glu Ser	370	375
Glu Arg Leu Leu Arg Glu Leu Tyr Leu	380	Leu Ser Leu Pro Pro Glu	385	390
Asp Arg Thr Thr Ala Ala His Gly Leu	395	Phe Asp Val Leu Arg Ala	400	405
Leu Asp His Arg Phe Ser Ser Tyr Tyr	410	Glu Leu Arg Val Pro Phe	415	420
Met Arg Ile Pro Lys Asn Gly Ile Glu	425	Leu Ser Leu Pro Pro Glu	430	435
Thr Phe Glu Asp Ser Asn Leu Ile Pro	440	Lys His Leu Leu Arg Glu	445	450
Pro Lys Glu Ala Phe Ser Asp Gly Ile	455	Glu Ile Leu Trp Arg	460	465
Trp Phe Lys Ile Leu Gln Glu Tyr Val	470	Thr Ser Val Lys Asn Ser	475	480
Ala Met Met Ala Asn Ala Ala Gln Lys	485	Glu His Gln Val Asp Asp	490	495
Lys Thr Lys Glu Gly Tyr Tyr Tyr Arg	500	Phe Pro Phe Asn Thr Pro	505	510
Tyr Pro Gly Arg Ala Asp Trp Leu Ser	515	Gln Val Phe Glu Arg His	520	525
Trp Ile Asn Ala Thr Asp Pro Ser Ala	530	His Tyr Trp Met Pro Lys	535	540
Lys Ser Ala Val Lys Ala	545	Arg Thr Leu Thr His Tyr	550	555
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<210> 103
 <211> 2764
 <212> DNA

PA-0035 US

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1039889.8

<400> 103

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<210> 104

PA-0035 US

<211> 1450

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1272969CB1

<400> 104

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<210> 105

<211> 430

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1272969CD1

<400> 105

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                               35                               40                               45
Ile Ser Val Ser Arg Ser Thr Ser Phe Arg Gly Gly Met Gly Ser
                               50                               55                               60
Gly Gly Leu Ala Thr Gly Ile Ala Gly Gly Leu Ala Gly Met Gly
                               65                               70                               75
Gly Ile Gln Asn Glu Lys Glu Thr Met Gln Ser Leu Asn Asp Arg
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Leu Ala Ser Tyr	Leu Asp Arg Val Arg	Ser Leu Glu Thr Glu	Asn		
	95		100		105
Arg Arg Leu Glu	Ser Lys Ile Arg Glu	His Leu Glu Lys Lys	Gly		
	110		115		120
Pro Gln Val Arg	Asp Trp Ser His Tyr	Phe Lys Ile Ile Glu	Asp		
	125		130		135
Leu Arg Ala Gln	Ile Phe Ala Asn Thr	Val Asp Asn Ala Arg	Ile		
	140		145		150
Val Leu Gln Ile	Asp Asn Ala Arg Leu	Ala Ala Asp Asp Phe	Arg		
	155		160		165
Val Lys Tyr Glu	Thr Glu Leu Ala Met	Arg Gln Ser Val Glu	Asn		
	170		175		180
Asp Ile His Gly	Leu Arg Lys Val Ile	Asp Asp Thr Asn Ile	Thr		
	185		190		195
Arg Leu Gln Leu	Glu Thr Glu Ile Glu	Ala Leu Lys Glu Glu	Leu		
	200		205		210
Leu Phe Met Lys	Lys Asn His Glu Glu	Glu Val Lys Gly Leu	Gln		
	215		220		225
Ala Gln Ile Ala	Ser Ser Gly Leu Thr	Val Glu Val Asp Ala	Pro		
	230		235		240
Lys Ser Gln Asp	Leu Ala Lys Ile Met	Ala Asp Ile Arg Ala	Gln		
	245		250		255
Tyr Asp Glu Leu	Ala Arg Lys Asn Arg	Glu Glu Leu Asp Lys	Tyr		
	260		265		270
Trp Ser Gln Gln	Ile Glu Glu Ser Thr	Thr Val Val Thr Thr	Gln		
	275		280		285
Ser Ala Glu Val	Gly Ala Ala Glu Thr	Thr Leu Thr Glu Leu	Arg		
	290		295		300
Arg Thr Val Gln	Ser Leu Glu Ile Asp	Leu Asp Ser Met Arg	Asn		
	305		310		315
Leu Lys Ala Ser	Leu Glu Asn Ser Leu	Arg Glu Val Glu Ala	Arg		
	320		325		330
Tyr Ala Leu Gln	Met Glu Gln Leu Asn	Gly Ile Leu Leu His	Leu		
	335		340		345
Glu Ser Glu Leu	Ala Gln Thr Arg Ala	Glu Gly Gln Arg Gln	Ala		
	350		355		360
Gln Glu Tyr Glu	Ala Leu Leu Asn Ile	Lys Val Lys Leu Glu	Ala		
	365		370		375
Glu Ile Ala Thr	Tyr Arg Arg Leu Leu	Glu Asp Gly Glu Asp	Phe		
	380		385		390
Asn Leu Gly Asp	Ala Leu Asp Ser Ser	Asn Ser Met Gln Thr	Ile		
	395		400		405
Gln Lys Thr Thr	Thr Arg Arg Ile Val	Asp Gly Lys Val Val	Ser		
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<210> 106

<211> 6290

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 282397.85c

<400> 106

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<213> Homo sapiens

PA-0035 US

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PA-0035 US

<212> PRT

<213> Homo sapiens

<220>

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<223> Incyte ID No: 1448817CD1

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PA-0035 US

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<223> Incyte ID No: 995529.7

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Pro Cys Trp Gln Val Lys Trp Gln Leu Arg Gln Leu Val Arg Lys
80 85 90
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cagaggtatc	cacacttctc	ctttggggaa	gccttccctg	tccccctaga	ctaagttaaa	1980
tatttctgca	cagtgttccc	atggccctt	gcatttccct	cttaactctc	tgttacacgt	2040

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cattgaaact acactttttt ggtctgtttt tgtgctagac tgtaagttcc ttgggggcag 2100
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<210> 121

<211> 644

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 280276CD1

<400> 121

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Thr	Ala	Trp	Thr	Ala	Asp	Ser	Gly	Glu	Gly	Asp	Phe	Leu	Ala	Glu	
				20					25					30	
Gly	Gly	Gly	Val	Arg	Gly	Pro	Arg	Val	Val	Glu	Arg	His	Gln	Ser	
				35					40					45	
Ala	Cys	Lys	Asp	Ser	Asp	Trp	Pro	Phe	Cys	Ser	Asp	Glu	Asp	Trp	
				50					55					60	
Asn	Tyr	Lys	Cys	Pro	Ser	Gly	Cys	Arg	Met	Lys	Gly	Leu	Ile	Asp	
				65					70					75	
Glu	Val	Asn	Gln	Asp	Phe	Thr	Asn	Arg	Ile	Asn	Lys	Leu	Lys	Asn	
				80					85					90	
Ser	Leu	Phe	Glu	Tyr	Gln	Lys	Asn	Asn	Lys	Asp	Ser	His	Ser	Leu	
				95					100					105	
Thr	Thr	Asn	Ile	Met	Glu	Ile	Leu	Arg	Gly	Asp	Phe	Ser	Ser	Ala	
				110					115					120	
Asn	Asn	Arg	Asp	Asn	Thr	Tyr	Asn	Arg	Val	Ser	Glu	Asp	Leu	Arg	
				125					130					135	
Ser	Arg	Ile	Glu	Val	Leu	Lys	Arg	Lys	Val	Ile	Glu	Lys	Val	Gln	
				140					145					150	
His	Ile	Gln	Leu	Leu	Gln	Lys	Asn	Val	Arg	Ala	Gln	Leu	Val	Asp	
				155					160					165	
Met	Lys	Arg	Leu	Glu	Val	Asp	Ile	Asp	Ile	Lys	Ile	Arg	Ser	Cys	
				170					175					180	
Arg	Gly	Ser	Cys	Ser	Arg	Ala	Leu	Ala	Arg	Glu	Val	Asp	Leu	Lys	
				185					190					195	
Asp	Tyr	Glu	Asp	Gln	Gln	Lys	Gln	Leu	Glu	Gln	Val	Ile	Ala	Lys	
				200					205					210	
Asp	Leu	Leu	Pro	Ser	Arg	Asp	Arg	Gln	His	Leu	Pro	Leu	Ile	Lys	
				215					220					225	
Met	Lys	Pro	Val	Pro	Asp	Leu	Val	Pro	Gly	Asn	Phe	Lys	Ser	Gln	
				230					235					240	
Leu	Gln	Lys	Val	Pro	Pro	Glu	Trp	Lys	Ala	Leu	Thr	Asp	Met	Pro	
				245					250					255	
Gln	Met	Arg	Met	Glu	Leu	Glu	Arg	Pro	Gly	Gly	Asn	Glu	Ile	Thr	
				260					265					270	
Arg	Gly	Gly	Ser	Thr	Ser	Tyr	Gly	Thr	Gly	Ser	Glu	Thr	Glu	Ser	
				275					280					285	
Pro	Arg	Asn	Pro	Ser	Ser	Ala	Gly	Ser	Trp	Asn	Ser	Gly	Ser	Ser	
				290					295					300	
Gly	Pro	Gly	Ser	Thr	Gly	Asn	Arg	Asn	Pro	Gly	Ser	Ser	Gly	Thr	
				305					310					315	

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Gly Gly Thr Ala Thr Trp Lys Pro Gly Ser Ser Gly Pro Gly Ser
320 325 330
Thr Gly Ser Trp Asn Ser Gly Ser Ser Gly Thr Gly Ser Thr Gly
335 340 345
Asn Gln Asn Pro Gly Ser Pro Arg Pro Gly Ser Thr Gly Thr Trp
350 355 360
Asn Pro Gly Ser Ser Glu Arg Gly Ser Ala Gly His Trp Thr Ser
365 370 375
Glu Ser Ser Val Ser Gly Ser Thr Gly Gln Trp His Ser Glu Ser
380 385 390
Gly Ser Phe Arg Pro Asp Ser Pro Gly Ser Gly Asn Ala Arg Pro
395 400 405
Asn Asn Pro Asp Trp Gly Thr Phe Glu Glu Val Ser Gly Asn Val
410 415 420
Ser Pro Gly Thr Arg Arg Glu Tyr His Thr Glu Lys Leu Val Thr
425 430 435
Ser Lys Gly Asp Lys Glu Leu Arg Thr Gly Lys Glu Lys Val Thr
440 445 450
Ser Gly Ser Thr Thr Thr Thr Arg Arg Ser Cys Ser Lys Thr Val
455 460 465
Thr Lys Thr Val Ile Gly Pro Asp Gly His Lys Glu Val Thr Lys
470 475 480
Glu Val Val Thr Ser Glu Asp Gly Ser Asp Cys Pro Glu Ala Met
485 490 495
Asp Leu Gly Thr Leu Ser Gly Ile Gly Thr Leu Asp Gly Phe Arg
500 505 510
His Arg His Pro Asp Glu Ala Ala Phe Phe Asp Thr Ala Ser Thr
515 520 525
Gly Lys Thr Phe Pro Gly Phe Phe Ser Pro Met Leu Gly Glu Phe
530 535 540
Val Ser Glu Thr Glu Ser Arg Gly Ser Glu Ser Gly Ile Phe Thr
545 550 555
Asn Thr Lys Glu Ser Ser Ser His His Pro Gly Ile Ala Glu Phe
560 565 570
Pro Ser Arg Gly Lys Ser Ser Ser Tyr Ser Lys Gln Phe Thr Ser
575 580 585
Ser Thr Ser Tyr Asn Arg Gly Asp Ser Thr Phe Glu Ser Lys Ser
590 595 600
Tyr Lys Met Ala Asp Glu Ala Gly Ser Glu Ala Asp His Glu Gly
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<210> 122

<211> 1712

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4675668CB1

<400> 122

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 aagcggagga agagtatgtg gggccccggc tgagccgacg gattttgcag caagcacggc 240
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 tgtacagggg ggtccgggag gtattatcta agtaccgcag tggaaaactg cccaaggcat 660
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<210> 123

<211> 437

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4675668CD1

<400> 123

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His	Ala	Pro	Leu	Ala	Asp	Gln	Ile	Leu	Ala	Gly	Asn	Ala	Val	Arg
			20						25					30
Ala	Gly	Val	Arg	Glu	Lys	Arg	Arg	Gly	Arg	Gly	Thr	Gly	Glu	Ala
			35						40					45
Glu	Glu	Glu	Tyr	Val	Gly	Pro	Arg	Leu	Ser	Arg	Arg	Ile	Leu	Gln
			50						55					60
Gln	Ala	Arg	Gln	Gln	Gln	Glu	Glu	Leu	Glu	Ala	Glu	His	Gly	Thr
			65						70					75
Gly	Asp	Lys	Pro	Ala	Ala	Pro	Arg	Glu	Arg	Thr	Thr	Arg	Leu	Gly
			80						85					90
Pro	Arg	Met	Pro	Gln	Asp	Gly	Ser	Asp	Asp	Glu	Asp	Glu	Glu	Trp
			95						100					105
Pro	Thr	Leu	Glu	Lys	Ala	Ala	Thr	Met	Thr	Ala	Ala	Gly	His	His
			110						115					120
Ala	Glu	Val	Val	Val	Asp	Pro	Glu	Asp	Glu	Arg	Ala	Ile	Glu	Met
			125						130					135

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Phe Met Asn Lys Asn Pro Pro Ala Arg Arg Thr Leu Ala Asp Ile
140 145 150
Ile Met Glu Lys Leu Thr Glu Lys Gln Thr Glu Val Glu Thr Val
155 160 165
Met Ser Glu Val Ser Gly Phe Pro Met Pro Gln Leu Asp Pro Arg
170 175 180
Val Leu Glu Val Tyr Arg Gly Val Arg Glu Val Leu Ser Lys Tyr
185 190 195
Arg Ser Gly Lys Leu Pro Lys Ala Phe Lys Ile Ile Pro Ala Leu
200 205 210
Ser Asn Trp Glu Gln Ile Leu Tyr Val Thr Glu Pro Glu Ala Trp
215 220 225
Thr Ala Ala Ala Met Tyr Gln Ala Thr Arg Ile Phe Ala Ser Asn
230 235 240
Leu Lys Glu Arg Met Ala Gln Arg Phe Tyr Asn Leu Val Leu Leu
245 250 255
Pro Arg Val Arg Asp Asp Val Ala Glu Tyr Lys Arg Leu Asn Phe
260 265 270
His Leu Tyr Met Ala Leu Lys Lys Ala Leu Phe Lys Pro Gly Ala
275 280 285
Trp Phe Lys Gly Ile Leu Ile Pro Leu Cys Glu Ser Gly Thr Cys
290 295 300
Thr Leu Arg Glu Ala Ile Ile Val Gly Ser Ile Ile Thr Lys Cys
305 310 315
Ser Ile Pro Val Leu His Ser Ser Ala Ala Met Leu Lys Ile Ala
320 325 330
Glu Met Glu Tyr Ser Gly Ala Asn Ser Ile Phe Leu Arg Leu Leu
335 340 345
Leu Asp Lys Lys Tyr Ala Leu Pro Tyr Arg Val Leu Asp Ala Leu
350 355 360
Val Phe His Phe Leu Gly Phe Arg Thr Glu Lys Arg Glu Leu Pro
365 370 375
Val Leu Trp His Gln Cys Leu Leu Thr Leu Val Gln Arg Tyr Lys
380 385 390
Ala Asp Leu Ala Thr Asp Gln Lys Glu Ala Leu Leu Glu Leu Leu
395 400 405
Arg Leu Gln Pro His Pro Gln Leu Ser Pro Glu Ile Arg Arg Glu
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Leu Gln Ser Ala Val Pro Arg Asp Val Glu Asp Val Pro Ile Thr
425 430 435
Val Glu

<210> 124

<211> 2177

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 153825.1

<400> 124

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<210> 125

<211> 2230

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 403484.2c

<400> 125

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<210> 126

<211> 2143

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1459432CB1

<400> 126

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ccagttgtcc atcagccgcc cgacccccac ctttgtctac ttatacaatg cggccatcag 1080
cttgggctat gccaacagct gcctcaaccc gtttgtgtac atcgtgctct gtgagacgtt 1140

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Tyr Gln Phe Phe Leu Ala Phe Ala Leu Pro Phe Val Val Ile Thr
215 220 225
Ala Ala Tyr Val Arg Ile Leu Gln Arg Met Thr Ser Ser Val Ala
230 235 240
Pro Thr Ser Gln Arg Ser Ile Arg Leu Arg Thr Lys Arg Val Thr
245 250 255
Arg Thr Ala Ile Ala Ile Cys Leu Val Phe Phe Val Cys Trp Ala
260 265 270
Pro Tyr Tyr Val Leu Gln Leu Thr Gln Leu Ser Ile Ser Arg Pro
275 280 285
Thr Pro Thr Phe Val Tyr Leu Tyr Asn Ala Ala Ile Ser Leu Gly
290 295 300
Tyr Ala Asn Ser Cys Leu Asn Pro Phe Val Tyr Ile Val Leu Cys
305 310 315
Glu Thr Phe Arg Lys Arg Leu Val Leu Ser Val Lys Pro Ala Ala
320 325 330
Gln Gly Gln Leu Arg Ala Val Ser Asn Ala Gln Ala Ala Asp Glu
335 340 345
Glu Arg Thr Glu Ser Lys Gly Thr
350

<210> 128

<211> 424

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1096583.1

<400> 128

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tacatagcct gagttttaaac ggcagggttt ggctagttct aacttgctga agccagtcag 180
caccctcaca gagccagcta ggtactgggc ccaggggctt ccagagagtt cttcagagct 240
tctcagaggc ctgctagggg taggaggtcc ttaggcctct gagaagctct gaagaactct 300
ctggaagccc ctggggccag tacctagctg gctctgtgag ggtgctgact ggcttcagca 360
agttagaact agccaaacca ggaccctgtc caatctttga caattgggag ctgccaagag 420
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<210> 129

<211> 763

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 516300CB1

<400> 129

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aaaaagtaca catcgctgct tctctacttc gctcttgga cataatttct catggcagtg 180
tttaagacca ctctgtggag gtttaatttct gggaccttag ggataatatg cttttcgttg 240
atggctacgt tgggaatttt gttgaaaaat tcttttacta aactgagtat tgagccagca 300
tttactccag gacccaacat agaactccag aaagactctg actgctgttc ttgccaagaa 360
aaatgggttg ggtaccggtg caactgttac ttcattttcca gtgaacagaa aacttggaac 420

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gaaagtcggc atctctgtgc ttctcagaaa tccagcctgc ttcagcttca aaacacagat 480
gaactggatt ttatgagctc cagtcaacaa ttttactgga ttggactctc ttacagttag 540
gagcacaccg cctgggttggt ggagaatggc tctgcactct cccagtatct atttccatca 600
tttgaaactt ttaatacaaa gaactgcata gcgtataatc caaatggaaa tgctttagat 660
gaatcctgtg aagataaaaa tcgttatatc tgtaagcaac agctcattta aatgtttctt 720
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<210> 130

<211> 179

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 516300CD1

<400> 130

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20 25 30
Leu Lys Asn Ser Phe Thr Lys Leu Ser Ile Glu Pro Ala Phe Thr
35 40 45
Pro Gly Pro Asn Ile Glu Leu Gln Lys Asp Ser Asp Cys Cys Ser
50 55 60
Cys Gln Glu Lys Trp Val Gly Tyr Arg Cys Asn Cys Tyr Phe Ile
65 70 75
Ser Ser Glu Gln Lys Thr Trp Asn Glu Ser Arg His Leu Cys Ala
80 85 90
Ser Gln Lys Ser Ser Leu Leu Gln Leu Gln Asn Thr Asp Glu Leu
95 100 105
Asp Phe Met Ser Ser Ser Gln Gln Phe Tyr Trp Ile Gly Leu Ser
110 115 120
Tyr Ser Glu Glu His Thr Ala Trp Leu Trp Glu Asn Gly Ser Ala
125 130 135
Leu Ser Gln Tyr Leu Phe Pro Ser Phe Glu Thr Phe Asn Thr Lys
140 145 150
Asn Cys Ile Ala Tyr Asn Pro Asn Gly Asn Ala Leu Asp Glu Ser
155 160 165
Cys Glu Asp Lys Asn Arg Tyr Ile Cys Lys Gln Gln Leu Ile
170 175

<210> 131

<211> 1449

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 627856CB1

<400> 131

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ccctgctgtt cgactggctt tgcagaattt tgacatgact tacagtgtgc agtttggaga 180
tctttggcca tcaatccgtg tcagtctcct ctcagagcag aagtatgggtg cactgggtcaa 240
taactttgct gcctgggatac atgtaagtgc taagctggag cagctgagtg ccaaggattt 300

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tgtgaatgaa gccatctccc actgggaact gcagtctgag ggtggccaat ctgcagcccc 360
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taacagtcgc ttccctcctg ccagagtttg tgatcctacg agatgagaaa tggggtggaa 480
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agcagaagcc aatggccaaa ggccctgcca agaattcaga accagaggag gtcatcccat 720
cccggctgga tatccgtgtg gggaaaatca tcactgtgga gaagcaccca gatgcagaca 780
gcctgtatgt agagaagatt gacgtggggg aagctgaacc acggactgtg gtgagcggcc 840
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<210> 132

<211> 301

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 627856CD1

<400> 132

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          20          25          30
Asp Ala Ser Leu Leu Thr Glu Gly Ile Thr Val Ala Ser Leu Leu
          35          40          45
Pro Glu Phe Val Ile Leu Arg Asp Glu Lys Trp Gly Gly Asn Lys
          50          55          60
Thr Tyr Thr Ala Tyr Val Asp Leu Glu Lys Asp Phe Ala Ala Glu
          65          70          75
Val Val His Pro Gly Asp Leu Lys Asn Ser Val Glu Val Ala Leu
          80          85          90
Asn Lys Leu Leu Asp Pro Ile Arg Glu Lys Phe Asn Thr Pro Ala
          95          100          105
Leu Lys Lys Leu Ala Ser Ala Ala Tyr Pro Asp Pro Ser Lys Gln
          110          115          120
Lys Pro Met Ala Lys Gly Pro Ala Lys Asn Ser Glu Pro Glu Glu
          125          130          135
Val Ile Pro Ser Arg Leu Asp Ile Arg Val Gly Lys Ile Ile Thr
          140          145          150
Val Glu Lys His Pro Asp Ala Asp Ser Leu Tyr Val Glu Lys Ile
          155          160          165
Asp Val Gly Glu Ala Glu Pro Arg Thr Val Val Ser Gly Leu Val
          170          175          180
Gln Phe Val Pro Lys Glu Glu Leu Gln Asp Arg Leu Val Val Val
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	185		190		195
Leu Cys Asn Leu Lys Pro Gln Lys Met Arg Gly Val Glu Ser Gln					
	200		205		210
Gly Met Leu Leu Cys Ala Ser Ile Glu Gly Ile Asn Arg Gln Val					
	215		220		225
Glu Pro Leu Asp Pro Pro Ala Gly Ser Ala Pro Gly Glu His Val					
	230		235		240
Phe Val Lys Gly Tyr Glu Lys Gly Gln Pro Asp Glu Glu Leu Lys					
	245		250		255
Pro Lys Lys Lys Val Phe Glu Lys Leu Gln Ala Asp Phe Lys Ile					
	260		265		270
Ser Glu Glu Cys Ile Ala Gln Trp Lys Gln Thr Asn Phe Met Thr					
	275		280		285
Lys Leu Gly Ser Ile Ser Cys Lys Ser Leu Lys Gly Gly Asn Ile					
	290		295		300

Ser

<210> 133

<211> 3482

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1823159CB1

<400> 133

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ctgcatcaac	ttctaaatat	aattcacact	ccttgagaga	tgagtctatt	aagaggacgt	180
ctcgagatgg	agtcaatcga	gatctcactg	aggctgttcc	tcgacttcca	ggagaaacac	240
taatcactga	caaagaagtt	atttacatat	gtcctttcaa	tggccccatt	aagggaagag	300
tttacatcac	aaattatcgt	ctttatttta	gaagtttgga	aacggattct	tctctaatac	360
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aagtgaagga	cattgtttat	cctaattgtag	aagaatctca	ttggttgtcc	agtttggagt	1140
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<210> 134

<211> 603

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1823159CD1

<400> 134

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				20					25					30
Leu	Thr	Glu	Ala	Val	Pro	Arg	Leu	Pro	Gly	Glu	Thr	Leu	Ile	Thr
				35					40					45
Asp	Lys	Glu	Val	Ile	Tyr	Ile	Cys	Pro	Phe	Asn	Gly	Pro	Ile	Lys
				50					55					60
Gly	Arg	Val	Tyr	Ile	Thr	Asn	Tyr	Arg	Leu	Tyr	Leu	Arg	Ser	Leu
				65					70					75
Glu	Thr	Asp	Ser	Ser	Leu	Ile	Leu	Asp	Val	Pro	Leu	Gly	Val	Ile
				80					85					90
Ser	Arg	Ile	Glu	Lys	Met	Gly	Gly	Ala	Thr	Ser	Arg	Gly	Glu	Asn
				95					100					105
Ser	Tyr	Gly	Leu	Asp	Ile	Thr	Cys	Lys	Asp	Met	Arg	Asn	Leu	Arg

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				110					115				120	
Phe	Ala	Leu	Lys	Gln	Glu	Gly	His	Ser	Arg	Arg	Asp	Met	Phe	Glu
				125					130					135
Ile	Leu	Thr	Arg	Tyr	Ala	Phe	Pro	Leu	Ala	His	Ser	Leu	Pro	Leu
				140					145					150
Phe	Ala	Phe	Leu	Asn	Glu	Glu	Lys	Phe	Asn	Val	Asp	Gly	Trp	Thr
				155					160					165
Val	Tyr	Asn	Pro	Val	Glu	Glu	Tyr	Arg	Arg	Gln	Gly	Leu	Pro	Asn
				170					175					180
His	His	Trp	Arg	Ile	Thr	Phe	Ile	Asn	Lys	Cys	Tyr	Glu	Leu	Cys
				185					190					195
Asp	Thr	Tyr	Pro	Ala	Leu	Leu	Val	Val	Pro	Tyr	Arg	Ala	Ser	Asp
				200					205					210
Asp	Asp	Leu	Arg	Arg	Val	Ala	Thr	Phe	Arg	Ser	Arg	Asn	Arg	Ile
				215					220					225
Pro	Val	Leu	Ser	Trp	Ile	His	Pro	Glu	Asn	Lys	Thr	Val	Ile	Val
				230					235					240
Arg	Cys	Ser	Gln	Pro	Leu	Val	Gly	Met	Ser	Gly	Lys	Arg	Asn	Lys
				245					250					255
Asp	Asp	Glu	Lys	Tyr	Leu	Asp	Val	Ile	Arg	Glu	Thr	Asn	Lys	Gln
				260					265					270
Ile	Ser	Lys	Leu	Thr	Ile	Tyr	Asp	Ala	Arg	Pro	Ser	Val	Asn	Ala
				275					280					285
Val	Ala	Asn	Lys	Ala	Thr	Gly	Gly	Gly	Tyr	Glu	Ser	Asp	Asp	Ala
				290					295					300
Tyr	His	Asn	Ala	Glu	Leu	Phe	Phe	Leu	Asp	Ile	His	Asn	Ile	His
				305					310					315
Val	Met	Arg	Glu	Ser	Leu	Lys	Lys	Val	Lys	Asp	Ile	Val	Tyr	Pro
				320					325					330
Asn	Val	Glu	Glu	Ser	His	Trp	Leu	Ser	Ser	Leu	Glu	Ser	Thr	His
				335					340					345
Trp	Leu	Glu	His	Ile	Lys	Leu	Val	Leu	Thr	Gly	Ala	Ile	Gln	Val
				350					355					360
Ala	Asp	Lys	Val	Ser	Ser	Gly	Lys	Ser	Ser	Val	Leu	Val	His	Cys
				365					370					375
Ser	Asp	Gly	Trp	Asp	Arg	Thr	Ala	Gln	Leu	Thr	Ser	Leu	Ala	Met
				380					385					390
Leu	Met	Leu	Asp	Ser	Phe	Tyr	Arg	Ser	Ile	Glu	Gly	Phe	Glu	Ile
				395					400					405
Leu	Val	Gln	Lys	Glu	Trp	Ile	Ser	Phe	Gly	His	Lys	Phe	Ala	Ser
				410					415					420
Arg	Ile	Gly	His	Gly	Asp	Lys	Asn	His	Thr	Asp	Ala	Asp	Arg	Ser
				425					430					435
Pro	Ile	Phe	Leu	Gln	Phe	Ile	Asp	Cys	Val	Trp	Gln	Met	Ser	Lys
				440					445					450
Gln	Phe	Pro	Thr	Ala	Phe	Glu	Phe	Asn	Glu	Gln	Phe	Leu	Ile	Ile
				455					460					465
Ile	Leu	Asp	His	Leu	Tyr	Ser	Cys	Arg	Phe	Gly	Thr	Phe	Leu	Phe
				470					475					480
Asn	Cys	Glu	Ser	Ala	Arg	Glu	Arg	Gln	Lys	Val	Thr	Glu	Arg	Thr
				485					490					495
Val	Ser	Leu	Trp	Ser	Leu	Ile	Asn	Ser	Asn	Lys	Glu	Lys	Phe	Lys
				500					505					510
Asn	Pro	Phe	Tyr	Thr	Lys	Glu	Ile	Asn	Arg	Val	Leu	Tyr	Pro	Val
				515					520					525
Ala	Ser	Met	Arg	His	Leu	Glu	Leu	Trp	Val	Asn	Tyr	Tyr	Ile	Arg

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	530		535		540
Trp Asn Pro Arg	Ile Lys Gln Gln Gln	Pro Asn Pro Val Glu Gln			
	545		550		555
Arg Tyr Met Glu	Leu Leu Ala Leu Arg	Asp Glu Tyr Ile Lys Arg			
	560		565		570
Leu Glu Glu Leu	Gln Leu Ala Asn Ser	Ala Lys Leu Ser Asp Pro			
	575		580		585
Pro Thr Ser Pro	Ser Ser Pro Ser Gln	Met Met Pro His Val Gln			
	590		595		600
Thr His Phe					

<210> 135

<211> 1223

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 232567.4

<400> 135

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acaagaccga actgagcaag gaggagtgc gcagaccgg cggctgagc acctcgtgga 300
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ccaactgcat cccctgtaaa gaaacgtgtg agaactgga ctgtggacct gggaaaaaat 420
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agaggaggaa gatgaagacc aggactacag ctttctata tcttctatct tagagtggta 1140
aactctctat aagtgttcag tgttgacata gcctttggct ttttcacagt cacgacggtg 1200
taaatacgcg acgacgcggc gta                                     1223
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<210> 136

<211> 648

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 218419.1

<220>

<221> unsure

<222> 32, 34, 40, 58, 91, 110, 120, 123, 125, 144, 150

<223> a, t, c, g, or other

PA-0035 US

<400> 136

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ctcaagggga ttaattccca ttccttcctt tnangtggan atccatcatc tcagtgtngg 60
gaggcaactgc tgttaaattc tctgccctct ncaaacagcc atctgtctgn gaactccctn 120
aantngctgc tatccaggat gacngtgtnn ctgcagtctt tgagtgggta gagcgctgta 180
atgtctatgt taatagctgg gaaatcgag tagcagcaac cagaccactc caatggaaca 240
atccaagttg gggtaagttt gattgagcaa aaaagtcag ctgactgtgt gatgaagagg 300
cagaactggg aacagtgaca ggccctgcag tcagcagctg tggattttat gtgcagggca 360
gactgatctg gaaaatggga agagctgact gccataaaca ccttgggggg aggtttgttc 420
aagtgcactc ccctactcct ttgtatacct ctggattgac atgcagaagc ttaggaaata 480
aaacacactt gtaacatcac agggtgcaag taagtacatg tggatgcccc gtgtagagag 540
aagcgaaagc tagttttcat tgcaagaatc caaacagagt aacagggctt tgtccactgt 600
ctccagtcca tggttccctg gtgttcctag agtcctatta aaaaaaaa 648
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<210> 137

<211> 1197

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1630551CB1

<400> 137

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ccccgcgggg cgcggggctc cggggcgcg gtgcccggg tctgctgtgc agcgcgggc 120
ccgggcagct cccgtacgg acacctcagg cagtggcctt gtcgtcgaag tctggccttt 180
cccgaggccg gaaagtgatg ctgtcagcgc tgggcatgct ggcggcaggg ggtgcggggc 240
tgcccggtgg tctgcattcg gctgtgagtg ccagtgcact ggagctgcac cccccagct 300
atccgtggtc tcaccgtggc ctctctctct ccttggaaca caccagcatc cggaggggtt 360
tccaggtata taagcagggtg tgcgcctcct gccacagcat ggacttcgtg gcctaccgcc 420
acctggtggg cgtgtgtctac acggaggatg aagctaagga gctggctgcg gaggtggagg 480
ttcaagacgg cccaatgaa gatggggaga tgttcatgcg gccagggaag ctgttcgact 540
atttcccaaa accatacccc aacagtgagg ctgctcgagc tgccaacaac ggagcattgc 600
ccctgacctc cagctacatc gtgcgagcta ggcattggtg tgaggactac gtcttctccc 660
tgctcagggg ctactgcgag ccaccaccg ggggtgtcact gcgggaaggt ctctacttca 720
acctactctt tctggccag gccattgcca tggcccctcc catctacaca gatgtcttag 780
agtttgacga tggcacecca gctaccatgt ccagatagc caaggatgtg tgcaccttcc 840
tgcgctgggc atctgagcca gagcacgacc atcgaaaacg catggggctc aagatgttga 900
tgatgatggc tctgctgggtg cccctggtct acaccataaa gcggcacaag tggtcagtcc 960
tgaagagtcg gaagctggca tatcgccgc ccaagtgacc ctgtccagtg tctgcttgcc 1020
atcctgccag aacaggccct caagccaag agccatccca ggctgttca ggcctcagct 1080
aagcctctct tcatctggaa gaagaggcaa gggggcagga gaccaggctc tagctctggg 1140
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<210> 138

<211> 325

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1630551CD1

<400> 138

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  1                      5                      10          15
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PA-0035 US

Arg Gly Ala Gly Leu Pro Gly Ala Arg Ala Arg Gly Leu Leu Cys
20 25 30
Ser Ala Arg Pro Gly Gln Leu Pro Leu Arg Thr Pro Gln Ala Val
35 40 45
Ala Leu Ser Ser Lys Ser Gly Leu Ser Arg Gly Arg Lys Val Met
50 55 60
Leu Ser Ala Leu Gly Met Leu Ala Ala Gly Gly Ala Gly Leu Ala
65 70 75
Val Ala Leu His Ser Ala Val Ser Ala Ser Asp Leu Glu Leu His
80 85 90
Pro Pro Ser Tyr Pro Trp Ser His Arg Gly Leu Leu Ser Ser Leu
95 100 105
Asp His Thr Ser Ile Arg Arg Gly Phe Gln Val Tyr Lys Gln Val
110 115 120
Cys Ala Ser Cys His Ser Met Asp Phe Val Ala Tyr Arg His Leu
125 130 135
Val Gly Val Cys Tyr Thr Glu Asp Glu Ala Lys Glu Leu Ala Ala
140 145 150
Glu Val Glu Val Gln Asp Gly Pro Asn Glu Asp Gly Glu Met Phe
155 160 165
Met Arg Pro Gly Lys Leu Phe Asp Tyr Phe Pro Lys Pro Tyr Pro
170 175 180
Asn Ser Glu Ala Ala Arg Ala Ala Asn Asn Gly Ala Leu Pro Pro
185 190 195
Asp Leu Ser Tyr Ile Val Arg Ala Arg His Gly Gly Glu Asp Tyr
200 205 210
Val Phe Ser Leu Leu Thr Gly Tyr Cys Glu Pro Pro Thr Gly Val
215 220 225
Ser Leu Arg Glu Gly Leu Tyr Phe Asn Pro Tyr Phe Pro Gly Gln
230 235 240
Ala Ile Ala Met Ala Pro Pro Ile Tyr Thr Asp Val Leu Glu Phe
245 250 255
Asp Asp Gly Thr Pro Ala Thr Met Ser Gln Ile Ala Lys Asp Val
260 265 270
Cys Thr Phe Leu Arg Trp Ala Ser Glu Pro Glu His Asp His Arg
275 280 285
Lys Arg Met Gly Leu Lys Met Leu Met Met Met Ala Leu Leu Val
290 295 300
Pro Leu Val Tyr Thr Ile Lys Arg His Lys Trp Ser Val Leu Lys
305 310 315
Ser Arg Lys Leu Ala Tyr Arg Pro Pro Lys
320 325

<210> 139

<211> 2100

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 360961.19

<400> 139

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catgtgaatc atcggaggat atttgctgaa tgaattcaga ataggcaacc taatccactt 120
ggaaagcact aggcgtaaag tagcttaaatt cctgtaattt cagggatgat ctggtttgac 180
tggacggaaa atcattgtgg acacttatgg cggttggggg gctcatggag gaggtgcctt 240

PA-0035 US

ttcaggaaaag gattataacca aggtcgaccg ttcagctgct tatgctgctc gttgggtggc 300
aaaatccctt gttaaaggag gtctgtgccg gagggttctt gttcagggtat acactcttta 360
tataacgaac gattaaaagt catgtaagtg ggagggtatt tagtagtaat ctacttaact 420
acttgtttta taccaacgta ttatacaagt atatgggtct ttgcaatcac tgattcttac 480
gacatttgaa tccttttagg tctcttatgc tattggagtt tctcatccat tatctatctc 540
cattttccat tatggtacct ctcagaagag tgagagagag ctattagaga ttgtgaagaa 600
gaatttcgat ctccgccctg gggtcattgt caggtaaaga tggtaaagcc tgttgctagt 660
caagtatnga ggggtgtggg tgtgtgtgta tatacttaag gctgaggagg tgaagggtg 720
aaggaagact cctcaaatgg gaatatatct taattcctgg aacagttttg aactgctgcc 780
ttagtgaaga cttagtattt tgagaaatct aaaattacgg tgcctcatgg cttaggctaa 840
ccactctaga gaatgttcca gatttgatat ttgagctttg tgcctcttcta cttagggtg 900
ttaagaaaat agagataaag tgggttgctc aaggtttgtt gcaatgtaaa aacctatggt 960
gggtgtgggc ggcgggacct tggtaagtat tgtgtgatct cagggtgagct ttttgacaat 1020
tgaaatttct cagaataatg acaagttttc gtatttgttg agccagggac ggaaaaacaa 1080
ctatagttac taataaggac tgtgcaagga gtttgacac cagggaagta acacttttgc 1140
cacaaatctt tttcctagca tatccagag aactcatttg ccagagctct tgaaaatgag 1200
tcttgctgat tgttttgctt tattttaatt taatgctaca tattaagtta cggacttgta 1260
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ccttttttcc ccagacttgt tggcgtaggc tacagagaag ccttcaagct ctgagggaaa 1440
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aacgctccaa agtcataatt gcattgactt tccccaccag atgctgaaaa tgtccttg 1740
atgtgcacgt aaagtacttg tagttccact tatagcctct gtctggcaat gccacagccc 1800
tgtcagcatg aatttgtaat gtcttgagct ctattatgaa tgtgaagcct gttgctagtc 1860
aagtattgag ggtgttgggt gtgtgtgtat atacttaagg ctgaggagggt gaagggtgta 1920
aggaagactc ctcaaatggg aatatatctt aattcctgga acagttttga actgctgcct 1980
tagtgaagac ttagttatct gagaaattta aaattacggt gctccatggc ttaggctaac 2040
cactctagag aatgttccag atttgatatt tgagctttgt gctcttctac ttaaggggtg 2100

<210> 140

<211> 2115

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 809809CB1

<400> 140

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cggcaactgc attgaggtgg tggcgccgct gccggcccg gccgctcgg cctctcggct 120
cgccctccag cctcgctga gcccgccgg gcccgcccg gccagcgct gccctatgag 180
tgtgtcactg gttgttatcc gattggagct cgcggaacac tcgcctgtcc ccgcccgtt 240
cggcttcagc gcccgccgg gggaaatgtc tgatgaggag ataaaaaaga cgacactagc 300
ctcagctgta gcctgttttag aaggcaagtc accaggagag aaagttagcga ttatccatca 360
gcactcggc cgtcgagaaa tgacagatgt gatcattgag accatgaagt ccaaccaga 420
tgaactaaaa actacagtgg aagaaaggaa gtcttcagaa gcctcccca ctgcgcaaag 480
aagtaaagat cacagtaagg aatgcataaa cgctgcccc gattctccgt ccaaacagct 540
tccagaccag atttcattct tcagtggaaa tccatcagtt gaaatagttc atggtattat 600
gcacctatat aagacaaata agatgacctc cttaaaagaa gatgtgcggc gcagtgccat 660
gctgtgtatt ctcacagtcc ctgctgcaat gaccagtcac gaccttatga agtttgttgc 720
cccatttaac gaagtaattg aacaaatgaa aattatcaga gactctactc ccaaccaata 780
tatggtgctg ataaaagttc gtgcacaggg tgatgcggat agtttttata tgacatgcaa 840

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tggccgccag ttcaactcaa tagaagatga cgtttgccag ctagtgtatg tggaaagagc 900
tgaagtgtct aaatctgaag atggcgccag cctcccagtg atggacctga ctgaactccc 960
caagtgcacg gtgtgtcttg agcgcatgga cgagtctgtg aatggcatcc tcacaacgtt 1020
atgtaaccac agcttccaca gccagtgtct acagcgttg gacgatacca cgtgtcctgt 1080
ttgccggtac tgtcaaacgc ccgagccagt agaagaaaat aagtgttttg agtgtggtgt 1140
tcaggaaaat ctttggattt gtttaatatg cggccacata ggatgtggac ggtatgtcag 1200
tcgacatgct tataagcact ttgaggaac gcagcacacg tatgccatgc agcttaccaa 1260
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gaccaagttt aaagaaacaa ttgagaagtg tgataatcta gagcacaac taaatgatct 1560
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ctccaggaag ggccgcagca agaggggcaa gtgaccttca gagcaacaga catccctgag 1980
actgttctcc ctgacactgt gagagtgtgc tgggaccttc agctaaatgt gaggggtggg 2040
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tgatgtagtg aatgt                                     2115

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<210> 141

<211> 592

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 809809CD1

<400> 141

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  1              5              10              15
Ser Pro Val Pro Ala Gly Phe Gly Phe Ser Ala Ala Ala Gly Glu
              20              25              30
Met Ser Asp Glu Glu Ile Lys Lys Thr Thr Leu Ala Ser Ala Val
              35              40              45
Ala Cys Leu Glu Gly Lys Ser Pro Gly Glu Lys Val Ala Ile Ile
              50              55              60
His Gln His Leu Gly Arg Arg Glu Met Thr Asp Val Ile Ile Glu
              65              70              75
Thr Met Lys Ser Asn Pro Asp Glu Leu Lys Thr Thr Val Glu Glu
              80              85              90
Arg Lys Ser Ser Glu Ala Ser Pro Thr Ala Gln Arg Ser Lys Asp
              95              100             105
His Ser Lys Glu Cys Ile Asn Ala Ala Pro Asp Ser Pro Ser Lys
              110             115             120
Gln Leu Pro Asp Gln Ile Ser Phe Phe Ser Gly Asn Pro Ser Val
              125             130             135
Glu Ile Val His Gly Ile Met His Leu Tyr Lys Thr Asn Lys Met
              140             145             150
Thr Ser Leu Lys Glu Asp Val Arg Arg Ser Ala Met Leu Cys Ile
              155             160             165
Leu Thr Val Pro Ala Ala Met Thr Ser His Asp Leu Met Lys Phe

```

Val Ala Pro Phe	170	175	180
Asn Glu Val Ile Glu		Gln Met Lys Ile Ile Arg	
185		190	195
Asp Ser Thr Pro	Asn Gln Tyr Met Val	Leu Ile Lys Phe Arg Ala	
200		205	210
Gln Ala Asp Ala	Asp Ser Phe Tyr Met	Thr Cys Asn Gly Arg Gln	
215		220	225
Phe Asn Ser Ile	Glu Asp Asp Val Cys	Gln Leu Val Tyr Val Glu	
230		235	240
Arg Ala Glu Val	Leu Lys Ser Glu Asp	Gly Ala Ser Leu Pro Val	
245		250	255
Met Asp Leu Thr	Glu Leu Pro Lys Cys	Thr Val Cys Leu Glu Arg	
260		265	270
Met Asp Glu Ser	Val Asn Gly Ile Leu	Thr Thr Leu Cys Asn His	
275		280	285
Ser Phe His Ser	Gln Cys Leu Gln Arg	Trp Asp Asp Thr Thr Cys	
290		295	300
Pro Val Cys Arg	Tyr Cys Gln Thr Pro	Glu Pro Val Glu Glu Asn	
305		310	315
Lys Cys Phe Glu	Cys Gly Val Gln Glu	Asn Leu Trp Ile Cys Leu	
320		325	330
Ile Cys Gly His	Ile Gly Cys Gly Arg	Tyr Val Ser Arg His Ala	
335		340	345
Tyr Lys His Phe	Glu Glu Thr Gln His	Thr Tyr Ala Met Gln Leu	
350		355	360
Thr Asn His Arg	Val Trp Asp Tyr Ala	Gly Asp Asn Tyr Val His	
365		370	375
Arg Leu Val Ala	Ser Lys Thr Asp Gly	Lys Ile Val Gln Tyr Glu	
380		385	390
Cys Glu Gly Asp	Thr Cys Gln Glu Glu	Lys Ile Asp Ala Leu Gln	
395		400	405
Leu Glu Tyr Ser	Tyr Leu Leu Thr Ser	Gln Leu Glu Ser Gln Arg	
410		415	420
Ile Tyr Trp Glu	Asn Lys Ile Val Arg	Ile Glu Lys Asp Thr Ala	
425		430	435
Glu Glu Ile Asn	Asn Met Lys Thr Lys	Phe Lys Glu Thr Ile Glu	
440		445	450
Lys Cys Asp Asn	Leu Glu His Lys Leu	Asn Asp Leu Leu Lys Glu	
455		460	465
Lys Gln Ser Val	Glu Arg Lys Cys Thr	Gln Leu Asn Thr Lys Val	
470		475	480
Ala Lys Leu Thr	Asn Glu Leu Lys Glu	Glu Gln Glu Met Asn Lys	
485		490	495
Cys Leu Arg Ala	Asn Gln Val Leu Leu	Gln Asn Lys Leu Lys Glu	
500		505	510
Glu Glu Arg Val	Leu Lys Glu Thr Cys	Asp Gln Lys Asp Leu Gln	
515		520	525
Ile Thr Glu Ile	Gln Glu Gln Leu Arg	Asp Val Met Phe Tyr Leu	
530		535	540
Glu Thr Gln Gln	Lys Ile Asn His Leu	Pro Ala Glu Thr Arg Gln	
545		550	555
Glu Ile Gln Glu	Gly Gln Ile Asn Ile	Ala Met Ala Ser Ala Ser	
560		565	570
Ser Pro Ala Ser	Ser Gly Gly Ser Gly	Lys Leu Pro Ser Arg Lys	
575		580	585
Gly Arg Ser Lys	Arg Gly Lys		

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590

<210> 142

<211> 2435

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2558815CB1

<400> 142

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cttcgtcgtg tcgcagccgc tcaattaccg cggcggggcc cgcgtggagc cggcggacgc 180
ctccggtacc gagaaagctt tcgagccagc aaccggccga gtgatagcta ctttcacatg 240
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gaagtcggct ccagcattag cctgtggtaa tgccatggtc tttaaacctt ctccctttac 660
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<210> 143

<211> 518

<212> PRT

PA-0035 US

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2558815CD1

<400> 143

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Ser	Leu	Arg	Pro	Ser	Pro	Val	Ala	Ala	Met	Ser	Thr	Gly	Thr	Phe
				20					25					30
Val	Val	Ser	Gln	Pro	Leu	Asn	Tyr	Arg	Gly	Gly	Ala	Arg	Val	Glu
				35					40					45
Pro	Ala	Asp	Ala	Ser	Gly	Thr	Glu	Lys	Ala	Phe	Glu	Pro	Ala	Thr
				50					55					60
Gly	Arg	Val	Ile	Ala	Thr	Phe	Thr	Cys	Ser	Gly	Glu	Lys	Glu	Val
				65					70					75
Asn	Leu	Ala	Val	Gln	Asn	Ala	Lys	Ala	Ala	Phe	Lys	Ile	Trp	Ser
				80					85					90
Gln	Lys	Ser	Gly	Met	Glu	Arg	Cys	Arg	Ile	Leu	Leu	Glu	Ala	Ala
				95					100					105
Arg	Ile	Ile	Arg	Glu	Arg	Glu	Asp	Glu	Ile	Ala	Thr	Met	Glu	Cys
				110					115					120
Ile	Asn	Asn	Gly	Lys	Ser	Ile	Phe	Glu	Ala	Arg	Leu	Asp	Ile	Asp
				125					130					135
Ile	Ser	Trp	Gln	Cys	Leu	Glu	Tyr	Tyr	Ala	Gly	Leu	Ala	Ala	Ser
				140					145					150
Met	Ala	Gly	Glu	His	Ile	Gln	Leu	Pro	Gly	Gly	Ser	Phe	Gly	Tyr
				155					160					165
Thr	Arg	Arg	Glu	Pro	Leu	Gly	Val	Cys	Val	Gly	Ile	Gly	Ala	Trp
				170					175					180
Asn	Tyr	Pro	Phe	Gln	Ile	Ala	Ser	Trp	Lys	Ser	Ala	Pro	Ala	Leu
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Pro	Pro	Gly	Leu	Phe	Asn	Val	Val	Gln	Gly	Gly	Ala	Ala	Thr	Gly
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Gln	Phe	Leu	Cys	Gln	His	Pro	Asp	Val	Ala	Lys	Val	Ser	Phe	Thr
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Gly	Ser	Val	Pro	Thr	Gly	Met	Lys	Ile	Met	Glu	Met	Ser	Ala	Lys
				260					265					270
Gly	Ile	Lys	Pro	Val	Thr	Leu	Glu	Leu	Gly	Gly	Lys	Ser	Pro	Leu
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Ile	Ile	Phe	Ser	Asp	Cys	Asp	Met	Asn	Asn	Ala	Val	Lys	Gly	Ala
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Leu	Met	Ala	Asn	Phe	Leu	Thr	Gln	Gly	Gln	Val	Cys	Cys	Asn	Gly
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Thr	Arg	Val	Phe	Val	Gln	Lys	Glu	Ile	Leu	Asp	Lys	Phe	Thr	Glu
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Glu	Val	Val	Lys	Gln	Thr	Gln	Arg	Ile	Lys	Ile	Gly	Asp	Pro	Leu
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Leu	Glu	Asp	Thr	Arg	Met	Gly	Pro	Leu	Ile	Asn	Arg	Pro	His	Leu
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Arg Asp Asp Met	Thr Cys Val Lys Glu	Glu Ile Phe Gly Pro	Val		
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Met Ser Ile Leu	Ser Phe Asp Thr Glu	Ala Glu Val Leu Glu	Arg		
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Ala Asn Asp Thr	Thr Phe Gly Leu Ala	Ala Gly Val Phe Thr	Arg		
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Asp Ile Gln Arg	Ala His Arg Val Val	Ala Glu Leu Gln Ala	Gly		
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Thr Cys Phe Ile	Asn Asn Tyr Asn Val	Ser Pro Val Glu Leu	Pro		
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Phe Gly Gly Tyr	Lys Lys Ser Gly Phe	Gly Arg Glu Asn Gly	Arg		
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<211> 2412

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<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 242010.16

<400> 144

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<211> 2458

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1678695CB1

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<211> 641

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1678695CD1

<400> 146

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 35          40          45
Asp Thr Glu Arg Leu Ile Gly Asp Ala Ala Lys Asn Gln Val Ala
 50          55          60
Leu Asn Pro Gln Asn Thr Val Phe Asp Ala Lys Arg Leu Ile Gly
 65          70          75
Arg Lys Phe Gly Asp Pro Val Val Gln Ser Asp Met Lys His Trp
 80          85          90
Pro Phe Gln Val Ile Asn Asp Gly Asp Lys Pro Lys Val Gln Val
 95          100         105
Ser Tyr Lys Gly Glu Thr Lys Ala Phe Tyr Pro Glu Glu Ile Ser
110          115         120
Ser Met Val Leu Thr Lys Met Lys Glu Ile Ala Glu Ala Tyr Leu
125          130         135
Gly Tyr Pro Val Thr Asn Ala Val Ile Thr Val Pro Ala Tyr Phe
140          145         150
Asn Asp Ser Gln Arg Gln Ala Thr Lys Asp Ala Gly Val Ile Ala
155          160         165
Gly Leu Asn Val Leu Arg Ile Ile Asn Glu Pro Thr Ala Ala Ala
170          175         180
Ile Ala Tyr Gly Leu Asp Arg Thr Gly Lys Gly Glu Arg Asn Val
185          190         195
Leu Ile Phe Asp Leu Gly Gly Gly Thr Phe Asp Val Ser Ile Leu
200          205         210
Thr Ile Asp Asp Gly Ile Phe Glu Val Lys Ala Thr Ala Gly Asp
215          220         225
Thr His Leu Gly Gly Glu Asp Phe Asp Asn Arg Leu Val Asn His
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Asn Lys Arg Ala	245	250	255
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Lys Arg Thr Leu Ser Ser Ser Thr Gln Ala Ser Leu Glu Ile Asp	275	280	285
Ser Leu Phe Glu Gly Ile Asp Phe Tyr Thr Ser Ile Thr Arg Ala	290	295	300
Arg Phe Glu Glu Leu Cys Ser Asp Leu Phe Arg Ser Thr Leu Glu	305	310	315
Pro Val Glu Lys Ala Leu Arg Asp Ala Lys Leu Asp Lys Ala Gln	320	325	330
Ile His Asp Leu Val Leu Val Gly Gly Ser Thr Arg Ile Pro Lys	335	340	345
Val Gln Lys Leu Leu Gln Asp Phe Phe Asn Gly Arg Asp Leu Asn	350	355	360
Lys Ser Ile Asn Pro Asp Glu Ala Val Ala Tyr Gly Ala Ala Val	365	370	375
Gln Ala Ala Ile Leu Met Gly Asp Lys Ser Glu Asn Val Gln Asp	380	385	390
Leu Leu Leu Leu Asp Val Ala Pro Leu Ser Leu Gly Leu Glu Thr	395	400	405
Ala Gly Gly Val Met Thr Ala Leu Ile Lys Arg Asn Ser Thr Ile	410	415	420
Pro Thr Lys Gln Thr Gln Ile Phe Thr Tyr Ser Asp Asn Gln	425	430	435
Pro Gly Val Leu Ile Gln Val Tyr Glu Gly Glu Arg Ala Met Thr	440	445	450
Lys Asp Asn Asn Leu Leu Gly Arg Phe Glu Leu Ser Gly Ile Pro	455	460	465
Pro Ala Pro Arg Gly Val Pro Gln Ile Glu Val Thr Phe Asp Ile	470	475	480
Asp Ala Asn Gly Ile Leu Asn Val Thr Ala Thr Asp Lys Ser Thr	485	490	495
Gly Lys Ala Asn Lys Ile Thr Ile Thr Asn Asp Lys Gly Arg Leu	500	505	510
Ser Lys Glu Glu Ile Glu Arg Met Val Gln Glu Ala Glu Lys Tyr	515	520	525
Lys Ala Glu Asp Glu Val Gln Arg Glu Arg Val Ser Ala Lys Asn	530	535	540
Ala Leu Glu Ser Tyr Ala Phe Asn Met Lys Ser Ala Val Glu Asp	545	550	555
Glu Gly Leu Lys Gly Lys Ile Ser Glu Ala Asp Lys Lys Lys Val	560	565	570
Leu Asp Lys Cys Gln Glu Val Ile Ser Trp Leu Asp Ala Asn Thr	575	580	585
Leu Ala Glu Lys Asp Glu Phe Glu His Lys Arg Lys Glu Leu Glu	590	595	600
Gln Val Cys Asn Pro Ile Ile Ser Gly Leu Tyr Gln Gly Ala Gly	605	610	615
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<210> 147

<211> 4035

<212> DNA

PA-0035 US

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 988653.1

<220>

<221> unsure

<222> 2626, 3304-3502

<223> a, t, c, g, or other

<400> 147

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<210> 148

<211> 3229

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 1250434CB1

<400> 148

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<210> 149

<211> 827

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1250434CD1

<400> 149

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Pro Leu Pro His Asn Val Ser Ser His Leu Asp Lys Ala Ser Val
          50          55          60
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          65          70          75
Ala Gly Asp Leu Asp Ile Glu Asp Asp Met Lys Ala Gln Met Asn
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Cys	Phe	Tyr	Leu	Lys	Ala	Leu	Asp	Gly	Phe	Val	Met	Val	Leu	Thr	95	100	105
Asp	Asp	Gly	Asp	Met	Ile	Tyr	Ile	Ser	Asp	Asn	Val	Asn	Lys	Tyr	110	115	120
Met	Gly	Leu	Thr	Gln	Phe	Glu	Leu	Thr	Gly	His	Ser	Val	Phe	Asp	125	130	135
Phe	Thr	His	Pro	Cys	Asp	His	Glu	Glu	Met	Arg	Glu	Met	Leu	Thr	140	145	150
His	Arg	Asn	Gly	Leu	Val	Lys	Lys	Gly	Lys	Glu	Gln	Asn	Thr	Gln	155	160	165
Arg	Ser	Phe	Phe	Leu	Arg	Met	Lys	Cys	Thr	Leu	Thr	Ser	Arg	Gly	170	175	180
Arg	Thr	Met	Asn	Ile	Lys	Ser	Ala	Thr	Trp	Lys	Val	Leu	His	Cys	185	190	195
Thr	Gly	His	Ile	His	Val	Tyr	Asp	Thr	Asn	Ser	Asn	Gln	Pro	Gln	200	205	210
Cys	Gly	Tyr	Lys	Lys	Pro	Pro	Met	Thr	Cys	Leu	Val	Leu	Ile	Cys	215	220	225
Glu	Pro	Ile	Pro	His	Pro	Ser	Asn	Ile	Glu	Ile	Pro	Leu	Asp	Ser	230	235	240
Lys	Thr	Phe	Leu	Ser	Arg	His	Ser	Leu	Asp	Met	Lys	Phe	Ser	Tyr	245	250	255
Cys	Asp	Glu	Arg	Ile	Thr	Glu	Leu	Met	Gly	Tyr	Glu	Pro	Glu	Glu	260	265	270
Leu	Leu	Gly	Arg	Ser	Ile	Tyr	Glu	Tyr	Tyr	His	Ala	Leu	Asp	Ser	275	280	285
Asp	His	Leu	Thr	Lys	Thr	His	His	Asp	Met	Phe	Thr	Lys	Gly	Gln	290	295	300
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Ser	Gln	Pro	Gln	Cys	Ile	Val	Cys	Val	Asn	Tyr	Val	Val	Ser	Gly	335	340	345
Ile	Ile	Gln	His	Asp	Leu	Ile	Phe	Ser	Leu	Gln	Gln	Thr	Glu	Cys	350	355	360
Val	Leu	Lys	Pro	Val	Glu	Ser	Ser	Asp	Met	Lys	Met	Thr	Gln	Leu	365	370	375
Phe	Thr	Lys	Val	Glu	Ser	Glu	Asp	Thr	Ser	Ser	Leu	Phe	Asp	Lys	380	385	390
Leu	Lys	Lys	Glu	Pro	Asp	Ala	Leu	Thr	Leu	Leu	Ala	Pro	Ala	Ala	395	400	405
Gly	Asp	Thr	Ile	Ile	Ser	Leu	Asp	Phe	Gly	Ser	Asn	Asp	Thr	Glu	410	415	420
Thr	Asp	Asp	Gln	Gln	Leu	Glu	Glu	Val	Pro	Leu	Tyr	Asn	Asp	Val	425	430	435
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Pro	Asn	Pro	Glu	Ser	Leu	Glu	Leu	Ser	Phe	Thr	Met	Pro	Gln	Ile	485	490	495
Gln	Asp	Gln	Thr	Pro	Ser	Pro	Ser	Asp	Gly	Ser	Thr	Arg	Gln	Ser	500	505	510

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Ser	Asp	Met	Val	Asn	Glu	Phe	Lys	Leu	Glu	Leu	Val	Glu	Lys	Leu
				530					535					540
Phe	Ala	Glu	Asp	Thr	Glu	Ala	Lys	Asn	Pro	Phe	Ser	Thr	Gln	Asp
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Thr	Asp	Leu	Asp	Leu	Glu	Met	Leu	Ala	Pro	Tyr	Ile	Pro	Met	Asp
				560					565					570
Asp	Asp	Phe	Gln	Leu	Arg	Ser	Phe	Asp	Gln	Leu	Ser	Pro	Leu	Glu
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Ser	Ser	Ser	Ala	Ser	Pro	Glu	Ser	Ala	Ser	Pro	Gln	Ser	Thr	Val
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				620					625					630
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Thr	His	Ile	His	Lys	Glu	Thr	Thr	Ser	Ala	Thr	Ser	Ser	Pro	Tyr
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Arg	Asp	Thr	Gln	Ser	Arg	Thr	Ala	Ser	Pro	Asn	Arg	Ala	Gly	Lys
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Val	Leu	Ser	Val	Ala	Leu	Ser	Gln	Arg	Thr	Thr	Val	Pro	Glu	Glu
				695					700					705
Glu	Leu	Asn	Pro	Lys	Ile	Leu	Ala	Leu	Gln	Asn	Ala	Gln	Arg	Lys
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Arg	Lys	Met	Glu	His	Asp	Gly	Ser	Leu	Phe	Gln	Ala	Val	Gly	Ile
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Gly	Thr	Leu	Leu	Gln	Gln	Pro	Asp	Asp	His	Ala	Ala	Thr	Thr	Ser
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Leu	Ser	Trp	Lys	Arg	Val	Lys	Gly	Cys	Lys	Ser	Ser	Glu	Gln	Asn
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Gly	Met	Glu	Gln	Lys	Thr	Ile	Ile	Leu	Ile	Pro	Ser	Asp	Leu	Ala
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Cys	Arg	Leu	Leu	Gly	Gln	Ser	Met	Asp	Glu	Ser	Gly	Leu	Pro	Gln
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Leu	Thr	Ser	Tyr	Asp	Cys	Glu	Val	Asn	Ala	Pro	Ile	Gln	Gly	Ser
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<211> 1790

<212> DNA

<213> Homo sapiens

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<222> 159-272

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<223> a, t, c, g, or other

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<213> Homo sapiens

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<221> unsure
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<223> a, t, c, g, or other

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<213> Homo sapiens

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<210> 154
<211> 463
<212> PRT
<213> Homo sapiens

<220>
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35 40 45
Ser Gly Ser Gln Arg Asp Val Asn Cys Ser Val Met Gly Pro Gln
50 55 60
Glu Lys Lys Val Val Val Tyr Leu Gln Lys Leu Asp Thr Ala Tyr
65 70 75
Asp Asp Leu Gly Asn Ser Gly His Phe Thr Ile Ile Tyr Asn Gln
80 85 90
Gly Phe Glu Ile Val Leu Asn Asp Tyr Lys Trp Phe Ala Phe Phe
95 100 105
Lys Tyr Lys Glu Glu Gly Ser Lys Val Thr Thr Tyr Cys Asn Glu
110 115 120
Thr Met Thr Gly Trp Val His Asp Val Leu Gly Arg Asn Trp Ala
125 130 135
Cys Phe Thr Gly Lys Lys Val Gly Thr Ala Ser Glu Asn Val Tyr
140 145 150
Val Asn Thr Ala His Leu Lys Asn Ser Gln Glu Lys Tyr Ser Asn
155 160 165
Arg Leu Tyr Lys Tyr Asp His Asn Phe Val Lys Ala Ile Asn Ala
170 175 180
Ile Gln Lys Ser Trp Thr Ala Thr Thr Tyr Met Glu Tyr Glu Thr
185 190 195
Leu Thr Leu Gly Asp Met Ile Arg Arg Ser Gly Gly His Ser Arg
200 205 210
Lys Ile Pro Arg Pro Lys Pro Ala Pro Leu Thr Ala Glu Ile Gln
215 220 225
Gln Lys Ile Leu His Leu Pro Thr Ser Trp Asp Trp Arg Asn Val
230 235 240
His Gly Ile Asn Phe Val Ser Pro Val Arg Asn Gln Ala Ser Cys
245 250 255

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Gly Ser Cys Tyr Ser Phe Ala Ser Met Gly Met Leu Glu Ala Arg
260 265 270
Ile Arg Ile Leu Thr Asn Asn Ser Gln Thr Pro Ile Leu Ser Pro
275 280 285
Gln Glu Val Val Ser Cys Ser Gln Tyr Ala Gln Gly Cys Glu Gly
290 295 300
Gly Phe Pro Tyr Leu Ile Ala Gly Lys Tyr Ala Gln Asp Phe Gly
305 310 315
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320 325 330
Cys Lys Met Lys Glu Asp Cys Phe Arg Tyr Tyr Ser Ser Glu Tyr
335 340 345
His Tyr Val Gly Gly Phe Tyr Gly Gly Cys Asn Glu Ala Leu Met
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Lys Leu Glu Leu Val His His Gly Pro Met Ala Val Ala Phe Glu
365 370 375
Val Tyr Asp Asp Phe Leu His Tyr Lys Lys Gly Ile Tyr His His
380 385 390
Thr Gly Leu Arg Asp Pro Phe Asn Pro Phe Glu Leu Thr Asn His
395 400 405
Ala Val Leu Leu Val Gly Tyr Gly Thr Asp Ser Ala Ser Gly Met
410 415 420
Asp Tyr Trp Ile Val Lys Asn Ser Trp Gly Thr Gly Trp Gly Glu
425 430 435
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<211> 898

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1095192.1

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caaacctgtg attttggggg tgtttaacat gaaacacttt agtgtagtaa ttgtatccac 240
tgtttgcatt tcaactgccac cattttgtcac atttttatgg aatctgtagg tggattcatc 300
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<211> 717

PA-0035 US

<212> DNA

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<222> 564, 622, 669, 677, 700

<223> a, t, c, g, or other

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tgtaccaaaag gttacctgct ggagctgagc cctatgagtt tgtctctctg gaatggctgc 180
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<211> 2510

<212> DNA

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<223> Incyte ID No: 1911808CB1

<400> 157

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<210> 158

<211> 254

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1911808CD1

<400> 158

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Val Val Asp His Val Ile Lys Ile Thr Arg Ile Glu Val Gly Asp
          35          40          45
Val Asn Pro Ser Glu Thr Gln Tyr Ile Ser Glu Pro Lys Leu Cys
          50          55          60
Pro Glu Cys Arg Glu Gly Leu Leu Cys Gln Gln Gln Arg Asp Leu
          65          70          75
Arg Glu Tyr Thr Gln Ala Thr Ile Tyr Val His Lys Val Val Asp
          80          85          90
Asn Lys Lys Val Met Lys Asp Ser Ala Pro Glu Leu Asn Val Ser
          95          100          105
Ser Ser Glu Thr Glu Glu Asp Lys Glu Glu Ala Lys Pro Asp Gly
          110          115          120
Glu Lys Asp Pro Asp Phe Asn Gln Ser Asn Gly Gly Thr Lys Arg
          125          130          135
Gln Lys Ile Ser His Gln Asn Tyr Ile Ala Tyr Gln Lys Gln Val
          140          145          150
Ile Arg Arg Ser Met Arg His Arg Lys Val Arg Gly Glu Lys Ala
          155          160          165
Leu Leu Val Ser Ala Asn Gln Thr Leu Lys Glu Leu Lys Ile Gln

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	170		175		180
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	185		190		195
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	200		205		210
Leu Gly Val Ile	Pro Glu Ser Val Ile	Leu Leu Lys Ala Asp Glu			
	215		220		225
Pro Ile Ala Asp	Tyr Ala Ala Met Asp	Asp Val Met Gln Val Cys			
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<220>
 <221> unsure
 <222> 1545, 1608, 1611, 1615, 1619, 3504-3528
 <223> a, t, c, g, or other

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<210> 160

<211> 1056

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 405844.21

<400> 160

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 tgggtctgtg ctgcagctcg ggccgctgct gatcgccaca ccgtcttctg gaacagttca 180

PA-0035 US

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<210> 161

<211> 1557

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 405844.22

<400> 161

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<210> 162

<211> 2256

<212> DNA

PA-0035 US

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2705515CB1

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<211> 471

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2705515CD1

<400> 163

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Ala	Ser	Lys	Asp	Glu	Ile	Asp	Ser	Ala	Val	Lys	Met	Leu	Val	Ser	35	40	45	
Leu	Lys	Met	Ser	Tyr	Lys	Ala	Ala	Ala	Gly	Glu	Asp	Tyr	Lys	Ala	50	55	60	
Asp	Cys	Pro	Pro	Gly	Asn	Pro	Ala	Pro	Thr	Ser	Asn	His	Gly	Pro	65	70	75	
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Gln	Thr	Ser	Ser	Ala	Lys	Gly	Ile	Asp	Tyr	Asp	Lys	Leu	Ile	Val	95	100	105	
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Glu	Arg	Ala	Thr	Gly	Gln	Arg	Pro	His	His	Phe	Leu	Arg	Arg	Gly	125	130	135	
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Glu	Asn	Lys	Lys	Pro	Phe	Tyr	Leu	Tyr	Thr	Gly	Arg	Gly	Pro	Ser	155	160	165	
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Lys	Trp	Leu	Gln	Asp	Val	Phe	Asn	Val	Pro	Leu	Val	Ile	Gln	Met	185	190	195	
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Ala	Phe	Ser	Gly	Gly	Arg	Asp	Thr	Ile	Glu	Glu	His	Arg	Gln	Phe	380	385	390	
Gly	Gly	Asn	Cys	Asp	Val	Asp	Val	Ser	Phe	Met	Tyr	Leu	Thr	Phe	395	400	405	
Phe	Leu	Glu	Asp	Asp	Asp	Lys	Leu	Glu	Gln	Ile	Arg	Lys	Asp	Tyr	410	415	420	

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Thr Ser Gly Ala Met Leu Thr Gly Glu Leu Lys Lys Ala Leu Ile
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Glu Val Leu Gln Pro Leu Ile Ala Glu His Gln Ala Arg Arg Lys
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<213> Homo sapiens

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<211> 679

<212> PRT

<213> Homo sapiens

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<223> Incyte ID No: 2023119CD1

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  35          40          45
Asn Ser Phe Gly Thr Ala Val Gly Ser Gly Val Val Thr Leu Lys
  50          55          60
Gln Ala Cys Ile Leu Ala Ser Ile Phe Glu Thr Val Gly Ser Val
  65          70          75
Leu Leu Gly Ala Lys Val Ser Glu Thr Ile Arg Lys Gly Leu Ile
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Asp Val Glu Met Tyr Asn Ser Thr Gln Gly Leu Leu Met Ala Gly
  95          100         105
Ser Val Ser Ala Met Phe Gly Ser Ala Val Trp Gln Leu Val Ala
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Pro Leu Leu Ser Gly Ile Met Ser Gly Ile Leu Phe Phe Leu Val
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  185         190         195
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Arg Lys Ile Glu Arg Glu Ile Lys Cys Ser Pro Ser Glu Ser Pro	260	265	270
Leu Met Glu Lys Lys Asn Ser Leu Lys Glu Asp His Glu Glu Thr	275	280	285
Lys Leu Ser Val Gly Asp Ile Glu Asn Lys His Pro Val Ser Glu	290	295	300
Val Gly Pro Ala Thr Val Pro Leu Gln Ala Val Val Glu Glu Arg	305	310	315
Thr Val Ser Phe Lys Leu Gly Asp Leu Glu Glu Ala Pro Glu Arg	320	325	330
Glu Arg Leu Pro Ser Val Asp Leu Lys Glu Glu Thr Ser Ile Asp	335	340	345
Ser Thr Val Asn Gly Ala Val Gln Leu Pro Asn Gly Asn Leu Val	350	355	360
Gln Phe Ser Gln Ala Val Ser Asn Gln Ile Asn Ser Ser Gly His	365	370	375
Tyr Gln Tyr His Thr Val His Lys Asp Ser Gly Leu Tyr Lys Glu	380	385	390
Leu Leu His Lys Leu His Leu Ala Lys Val Gly Asp Cys Met Gly	395	400	405
Asp Ser Gly Asp Lys Pro Leu Arg Arg Asn Asn Ser Tyr Thr Ser	410	415	420
Tyr Thr Met Ala Ile Cys Gly Met Pro Leu Asp Ser Phe Arg Ala	425	430	435
Lys Glu Gly Glu Gln Lys Gly Glu Glu Met Glu Lys Leu Thr Trp	440	445	450
Pro Asn Ala Asp Ser Lys Lys Arg Ile Arg Met Asp Ser Tyr Thr	455	460	465
Ser Tyr Cys Asn Ala Val Ser Asp Leu His Ser Ala Ser Glu Ile	470	475	480
Asp Met Ser Val Lys Ala Glu Met Gly Leu Gly Asp Arg Lys Gly	485	490	495
Ser Asn Gly Ser Leu Glu Glu Trp Tyr Asp Gln Asp Lys Pro Glu	500	505	510
Val Ser Leu Leu Phe Gln Phe Leu Gln Ile Leu Thr Ala Cys Phe	515	520	525
Gly Ser Phe Ala His Gly Gly Asn Asp Val Ser Asn Ala Ile Gly	530	535	540
Pro Leu Val Ala Leu Tyr Leu Val Tyr Asp Thr Gly Asp Val Ser	545	550	555
Ser Lys Val Ala Thr Pro Ile Trp Leu Leu Leu Tyr Gly Gly Val	560	565	570
Gly Ile Cys Val Gly Leu Trp Val Trp Gly Arg Arg Val Ile Gln	575	580	585
Thr Met Gly Lys Asp Leu Thr Pro Ile Thr Pro Ser Ser Gly Phe	590	595	600
Ser Ile Glu Leu Ala Ser Ala Leu Thr Val Val Ile Ala Ser Asn	605	610	615
Ile Gly Leu Pro Ile Ser Thr Thr His Cys Lys Val Gly Ser Val	620	625	630

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Leu Phe Arg Asn Ile Phe Met Ala Trp Phe Val Thr Val Pro Ile
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PA-0035 US

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<213> Homo sapiens

<220>

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<223> Incyte ID No: 220134.1

<400> 167

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PA-0035 US

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<211> 2024

<212> DNA

<213> Homo sapiens

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<220>

<221> unsure

<222> 164-227

<223> a, t, c, g, or other

<400> 168

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PA-0035 US

<211> 580
<212> DNA
<213> Homo sapiens

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<221> unsure
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<223> a, t, c, g, or other

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<211> 505
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<213> Homo sapiens

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<223> Incyte ID No: 382906.16

<220>
<221> unsure
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<223> a, t, c, g, or other

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<211> 2772
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PA-0035 US

<221> misc_feature

<223> Incyte ID No: 331306.1

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<221> unsure

<222> 2249, 2262

<223> a, t, c, g, or other

<400> 171

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PA-0035 US

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<221> unsure
<222> 151-152
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<223> Incyte ID No: 2767012CB1

<400> 177

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 agatggtgaa agaaacaact tactacgatg ttttgggggt caaaccctaat gctactcagg 180
 aagaattgaa aaaggcttat aggaaactgg ctttgaagta ccatcctgat aagaaccctaa 240
 atgaaggaga gaagttttaa cagatttctc aagcttacga agttctctct gatgcaaaga 300
 aaagggaatt atatgacaaa ggaggagaac aggcaattaa agaggggtgga gcagggtggc 360


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gttttggtc ccccatggac atctttgata tgttttttgg aggaggagga aggatgcaga 420
gagaaaggag aggtaaaaat gttgtacatc agctctcagt aaccctagaa gacttatata 480
atggtgcaac aagaaaactg gctctgcaaa agaatgtgat ttgtgacaaa tgtgaaggta 540
gaggaggtaa gaaaggagca gtagagtgtc gtcccaattg ccgaggtagt ggaatgcaaa 600
taagaattca tcagatagga cctggaatgg ttcagcaaat tcagtctgtg tgcattggag 660
gccagggcca tggggagcgg atcagtccta aagatagatg taaaagctgc aacggaagga 720
agatagttcg agagaagaaa attttagaag ttcattatga caaaggcatg aaagatggcc 780
agaagataac attccatggt gaaggagacc aagaaccagg actggagcca ggcgatatta 840
tcattgtgtt agatcagaag gacctatgctg tttttactcg acgaggagaa gaccttttca 900
tgtgtatgga catcacgctc gttgaagcac tgtgtggctt ccagaagcca atatctactc 960
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aagtagaact ggtggacttt gatccaaatc aggaagagcg gcgccactac aatggagaag 1260
catatgagga tgatgaacat catcccagag gtggtgttca gtgtcagacc tcttaatggg 1320
ccagtgaata acactcactg ctggcattta atgtgcagta gtgaatgagt gaaggactgt 1380
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<210> 178

<211> 397

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2767012CD1

<400> 178

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Asn Ala Thr Gln Glu Leu Lys Lys Ala Tyr Arg Lys Leu Ala
  20          25          30
Leu Lys Tyr His Pro Asp Lys Asn Pro Asn Glu Gly Glu Lys Phe
  35          40          45
Lys Gln Ile Ser Gln Ala Tyr Glu Val Leu Ser Asp Ala Lys Lys
  50          55          60
Arg Glu Leu Tyr Asp Lys Gly Gly Glu Gln Ala Ile Lys Glu Gly
  65          70          75
Gly Ala Gly Gly Gly Phe Gly Ser Pro Met Asp Ile Phe Asp Met
  80          85          90
Phe Phe Gly Gly Gly Gly Arg Met Gln Arg Glu Arg Arg Gly Lys
  95          100         105
Asn Val Val His Gln Leu Ser Val Thr Leu Glu Asp Leu Tyr Asn
  110         115         120
Gly Ala Thr Arg Lys Leu Ala Leu Gln Lys Asn Val Ile Cys Asp
  125         130         135
Lys Cys Glu Gly Arg Gly Gly Lys Lys Gly Ala Val Glu Cys Cys
  140         145         150
Pro Asn Cys Arg Gly Thr Gly Met Gln Ile Arg Ile His Gln Ile
  155         160         165
Gly Pro Gly Met Val Gln Gln Ile Gln Ser Val Cys Met Glu Cys
  170         175         180
Gln Gly His Gly Glu Arg Ile Ser Pro Lys Asp Arg Cys Lys Ser
  185         190         195

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Cys Asn Gly Arg Lys Ile Val Arg Glu Lys Lys Ile Leu Glu Val
200 205 210
His Ile Asp Lys Gly Met Lys Asp Gly Gln Lys Ile Thr Phe His
215 220 225
Gly Glu Gly Asp Gln Glu Pro Gly Leu Glu Pro Gly Asp Ile Ile
230 235 240
Ile Val Leu Asp Gln Lys Asp His Ala Val Phe Thr Arg Arg Gly
245 250 255
Glu Asp Leu Phe Met Cys Met Asp Ile Gln Leu Val Glu Ala Leu
260 265 270
Cys Gly Phe Gln Lys Pro Ile Ser Thr Leu Asp Asn Arg Thr Ile
275 280 285
Val Ile Thr Ser His Pro Gly Gln Ile Val Lys His Gly Asp Ile
290 295 300
Lys Cys Val Leu Asn Glu Gly Met Pro Ile Tyr Arg Arg Pro Tyr
305 310 315
Glu Lys Gly Arg Leu Ile Ile Glu Phe Lys Val Asn Phe Pro Glu
320 325 330
Asn Gly Phe Leu Ser Pro Asp Lys Leu Ser Leu Leu Glu Lys Leu
335 340 345
Leu Pro Glu Arg Lys Glu Val Glu Glu Thr Asp Glu Met Asp Gln
350 355 360
Val Glu Leu Val Asp Phe Asp Pro Asn Gln Glu Arg Arg Arg His
365 370 375
Tyr Asn Gly Glu Ala Tyr Glu Asp Asp Glu His His Pro Arg Gly
380 385 390
Gly Val Gln Cys Gln Thr Ser
395

<210> 179

<211> 2019

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1651724CB1

<400> 179

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gctggcctgc cgcgcctggg cgctctgaga ttgtcactgc tgttccaagg gcacacgcag 180
agggatattg aattcctgga gagttgcctt tgtgagaagc tggaaatatt tctttcaatt 240
ccatctctta gttttccata ggaacatcaa gaaatcatga acaactttgg taatgaagag 300
tttgactgcc acttcctcga tgaaggtttt actgccaagg acattctgga ccagaaaatt 360
aatgaagttt cttctcttga tgataaggat gccttctatg tggcagacct gggagacatt 420
ctaaagaaac atctgaggtg gttaaaagct ctccctcgtg tcaccccctt ttatgcagtc 480
aaatgtaatg atagcaaagc catcgtgaag acccttgctg ctaccgggac aggatttgac 540
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cagatgatga cttttgatag tgaagttgag ttgatgaaag ttgccagagc acatcccaaa 720
gcaaagttgg ttttgcgat tgccactgat gattccaaag cagtctgtcg tctcagtgtg 780
aaattcgggt ccacgctcag aaccagcagg ctctttttgg aacgggcgaa agagctaaat 840
atcgatgttg ttgggtgtcag cttccatgta ggaagcggct gtaccgatcc tgagaccttc 900
gtgcaggcaa tctctgatgc ccgctgtgtt tttgacatgg gggctgaggt tggtttcagc 960
atgtatctgc ttgatattgg cgggtggctt cctggatctg aggatgtgaa acttaaattt 1020
gaagagatca ccggcgtaat caaccacgcg ttggacaaat actttccgtc agactctgga 1080

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gtgagaatca tagctgagcc cggcagatac tatgttgcat cagctttcac gcttgagtt 1140
aatatcattg ccaagaaaat tgtattaaag gaacagacgg gctctgatga cgaagatgag 1200
tcgagtgagc agacctttat gtattatgtg aatgatggcg tctatggatc atttaattgc 1260
atactctatg accacgcaca tgtaaagccc cttctgcaaa agagacctaa accagatgag 1320
aagtattatt catccagcat atggggacca acatgtgatg gcctcgatcg gattgttgag 1380
cgctgtgacc tgctgaaat gcatgtgggt gattggatgc tctttgaaaa catgggcgct 1440
tacactgttg ctgctgcctc tacgttcaat ggcttccaga ggccgacgat ctactatgtg 1500
atgtcagggc ctgctgtggca actcatgcag caattccaga accccgactt cccacccgaa 1560
gtagaggaac aggatgccag caccctgcct gtgtcttgtg cctgggagag tgggatgaaa 1620
cgccacagag cagcctgtgc ttcggctagt attaatgtgt agatagcact ctggtagctg 1680
ttaactgcaa gtttagcttg aattaagggg tttgggggga ccatgtaact taattactgc 1740
tagttttgaa atgtctttgt aagagtaggg tcgccatgat gcagccatat ggaagactag 1800
gatatgggtc acacttatct gtgttcctat ggaaactatt tgaatatttg ttttatatgg 1860
atttttattc actcttcaga cacgctactc aagagtggcc ctcagctgct gaacaagcat 1920
ttgtagcttg tacaatggca gaatggggca aaagcttagt gttgtgacct gtttttaaaa 1980
taaagtatct tgaaataatt aggcacaaaa aaaaaaaaaa 2019
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<210> 180

<211> 461

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1651724CD1

<400> 180

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Glu Gly Phe Thr Ala Lys Asp Ile Leu Asp Gln Lys Ile Asn Glu
          20          25          30
Val Ser Ser Ser Asp Asp Lys Asp Ala Phe Tyr Val Ala Asp Leu
          35          40          45
Gly Asp Ile Leu Lys Lys His Leu Arg Trp Leu Lys Ala Leu Pro
          50          55          60
Arg Val Thr Pro Phe Tyr Ala Val Lys Cys Asn Asp Ser Lys Ala
          65          70          75
Ile Val Lys Thr Leu Ala Ala Thr Gly Thr Gly Phe Asp Cys Ala
          80          85          90
Ser Lys Thr Glu Ile Gln Leu Val Gln Ser Leu Gly Val Pro Pro
          95          100          105
Glu Arg Ile Ile Tyr Ala Asn Pro Cys Lys Gln Val Ser Gln Ile
          110          115          120
Lys Tyr Ala Ala Asn Asn Gly Val Gln Met Met Thr Phe Asp Ser
          125          130          135
Glu Val Glu Leu Met Lys Val Ala Arg Ala His Pro Lys Ala Lys
          140          145          150
Leu Val Leu Arg Ile Ala Thr Asp Asp Ser Lys Ala Val Cys Arg
          155          160          165
Leu Ser Val Lys Phe Gly Ala Thr Leu Arg Thr Ser Arg Leu Leu
          170          175          180
Leu Glu Arg Ala Lys Glu Leu Asn Ile Asp Val Val Gly Val Ser
          185          190          195
Phe His Val Gly Ser Gly Cys Thr Asp Pro Glu Thr Phe Val Gln
          200          205          210
Ala Ile Ser Asp Ala Arg Cys Val Phe Asp Met Gly Ala Glu Val
```

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	215		220		225
Gly Phe Ser Met	Tyr Leu Leu Asp Ile	Gly Gly Gly Phe Pro	Gly		
	230		235		240
Ser Glu Asp Val	Lys Leu Lys Phe Glu	Glu Ile Thr Gly Val	Ile		
	245		250		255
Asn Pro Ala Leu	Asp Lys Tyr Phe Pro	Ser Asp Ser Gly Val	Arg		
	260		265		270
Ile Ile Ala Glu	Pro Gly Arg Tyr Tyr	Val Ala Ser Ala Phe	Thr		
	275		280		285
Leu Ala Val Asn	Ile Ile Ala Lys Lys	Ile Val Leu Lys Glu	Gln		
	290		295		300
Thr Gly Ser Asp	Asp Glu Asp Glu Ser	Ser Glu Gln Thr Phe	Met		
	305		310		315
Tyr Tyr Val Asn	Asp Gly Val Tyr Gly	Ser Phe Asn Cys Ile	Leu		
	320		325		330
Tyr Asp His Ala	His Val Lys Pro Leu	Leu Gln Lys Arg Pro	Lys		
	335		340		345
Pro Asp Glu Lys	Tyr Tyr Ser Ser Ser	Ile Trp Gly Pro Thr	Cys		
	350		355		360
Asp Gly Leu Asp	Arg Ile Val Glu Arg	Cys Asp Leu Pro Glu	Met		
	365		370		375
His Val Gly Asp	Trp Met Leu Phe Glu	Asn Met Gly Ala Tyr	Thr		
	380		385		390
Val Ala Ala Ala	Ser Thr Phe Asn Gly	Phe Gln Arg Pro Thr	Ile		
	395		400		405
Tyr Tyr Val Met	Ser Gly Pro Ala Trp	Gln Leu Met Gln Gln	Phe		
	410		415		420
Gln Asn Pro Asp	Phe Pro Pro Glu Val	Glu Glu Gln Asp Ala	Ser		
	425		430		435
Thr Leu Pro Val	Ser Cys Ala Trp Glu	Ser Gly Met Lys Arg	His		
	440		445		450
Arg Ala Ala Cys	Ala Ser Ala Ser Ile	Asn Val			
	455		460		

<210> 181

<211> 265

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 206397.1

<400> 181

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aatagtcctt	caagtctaca	gccataccac	cctgaacgcg	cccaatctcg	tctaaaatag	180
tccttcaaat	atgtatctct	tatagccttc	agttatccca	acaaaattat	ctaaagattt	240
gtttatctat	ttattattat	ttttt				265

<210> 182

<211> 715

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

PA-0035 US

<223> Incyte ID No: 461707.40

<400> 182

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ccgcagcccc aaacattccc agagggtccac ttggggccagt ggtactttat cgcaggggca 180
gctcccacca aggaggagtt ggcaactttt gaccctgttg acaacattgt cttcaatatg 240
gctgtgtggt ctgccccgat gcagctccac cttcgtgcta ccatccgcat gaaagatggg 300
ctctgtgtgc cccggaaatg gatctaccac ctgactgaag ggagcacaga tctcagaact 360
gaaggccgcc ctgacatgaa gactgagctc ttttccagct catgcccagg tggaatcatg 420
ctgaatgaga caggccaggg ttaccagcgc ttttccctct acaatcgctc accacatcct 480
cccgaaaagt gtgtggagga attcaagtcc ctgacttcct gcctggactc caaagccttc 540
ttattgactc ctaggaatca agaggcctgt gagctgtcca ataactgacc tgtaacttca 600
tctaagtccc cagatgggta caatgggagc tgagttgttg gagggagaag ctggagactt 660
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<210> 183

<211> 962

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2706645CB1

<400> 183

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gggctgcacc aggggttcac catcctccct gggcagaggg aataagaggc tgcctctgcc 180
caccagtccct gccgccagg acccgagca gagacgacgc ctgcagcaag gagaccagga 240
aggggtgaga caaggaagag gatgtctgag ctggagaagg ccatggtggc cctcatcgac 300
gttttccacc aatattctgg aaggaggga gacaagcaca agctgaagaa atccgaactc 360
aaggagctca tcaacaatga gctttcccat ttcttagagg aaatcaaaga gcaggagggt 420
gtggacaaag tcatggaaac actggacaat gatggagacg gcgaatgtga cttccaggaa 480
ttcatggcct ttgttgccat ggttactact gcctgccacg agttctttga acatgagtga 540
gattagaaag cagccaaacc tttcctgtaa cagagatggt catgcaagaa agcagacagc 600
aagggtctgc agcctagtag gagctgagct ttccagccgt gttgtagcta attaggaagc 660
ttgatttgct ttgtgattga aaaattgaaa acctcttcc aaaggctggt ttaacggcct 720
gcatcattct ttctgtata ttaggcctgt gtgtaagctg actggcccca gggactcttg 780
ttaacagtaa cttaggagtc aggtctcagt gataaagcgt gcaccgtgca gcccgccatg 840
gccgtgtaga ccctaaccg gaggaaccc tgactacaga aattaccccg gggcaccctt 900
aaaacttcca ctacctttaa aaaacaaagc cttatccagc attatttgaa aaaaaaaaaa 960
aa 962
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<210> 184

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2706645CD1

<400> 184

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Met Ser Glu Leu Glu Lys Ala Met Val Ala Leu Ile Asp Val Phe
  1                      5                      10           15
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His	Gln	Tyr	Ser	Gly	Arg	Glu	Gly	Asp	Lys	His	Lys	Leu	Lys	Lys
				20					25					30
Ser	Glu	Leu	Lys	Glu	Leu	Ile	Asn	Asn	Glu	Leu	Ser	His	Phe	Leu
				35					40					45
Glu	Glu	Ile	Lys	Glu	Gln	Glu	Val	Val	Asp	Lys	Val	Met	Glu	Thr
				50					55					60
Leu	Asp	Asn	Asp	Gly	Asp	Gly	Glu	Cys	Asp	Phe	Gln	Glu	Phe	Met
				65					70					75
Ala	Phe	Val	Ala	Met	Val	Thr	Thr	Ala	Cys	His	Glu	Phe	Phe	Glu
				80					85					90

His Glu

<210> 185

<211> 2578

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 474372.7

<220>

<221> unsure

<222> 2154

<223> a, t, c, g, or other

<400> 185

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cccgagcca	cagccacagc	cacagcccca	ggcatagcct	tcggcacagc	cccgggctcc	240
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ctcttgcca	aaatcaactc	gcttgcccac	ctgcgcgcgc	cgccctgcaa	cgacctgcac	360
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aggcccgagc	cggtgcaaga	tctcttcgac	ttcatcacgg	aaaggggagc	cctgcaagag	720
gagctggccc	gcagcttctt	ctggcaggtg	ctggaggccg	tgcggcactg	ccacaactgc	780
ggggtgtctc	accgcgacat	caaggacgaa	aacatcctta	tcgacctcaa	tcgcggcgag	840
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gactctgaaa	tatcccgggg	gtgggggggtg	ggggtgggtc	agaacctgc	catggaactg	1560
tttccttcat	catgagttct	gctgaatgcc	gcgatgggtc	aggtaggggg	gaaacaggtt	1620
gggatgggat	aggactagca	ccattttaag	tcctgtcac	ctcttccgac	tctttctgag	1680
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ctgccctttt ttctgcctcc tttagtaaaa ctccgagtga actggtcttc ctttttggtt 1920
tttacttaac tgtttcaaaag ccaagacctc acacacacaa aaaatgcaca aacaatgcaa 1980
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cctctgactt ggggaccttt tgggggaggg ctgcgacgtc tgctctgttt gtgggggtgac 2280
gggactcagg cgggacagtgt ctgcagctcc ctggcttctg tggggcccct cacctactta 2340
cccaggtggg tcccggctct gtgggtgatg gggaggggca ttgctgactg tgtatatagg 2400
ataattatga aaagcagttc tggatggtgt gccttccaga tcctctctgg ggctgtgttt 2460
tgagcagcag gtagcctgct ggttttatct gagtgaataa ctgtacaggg gaataaaaga 2520
gatcttattt ttttttttat acttggcggt ttttgaataa aaaccttttg tcttaaaa 2578

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<210> 186

<211> 2196

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3592543CB1

<400> 186

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gaactgcaaa tcttattttt ttttcacctt ctctctaact gccagagctc agcgctgtg 180
gctcccgggc tgggtgtttcg ggagtgtcca gagagcctgg tctccagccg cccccgggag 240
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ccacggcggg aaagaccaga agggcgcgga gagccacgca agcgcgggct gccgggcgccc 540
cagcttctcg cgcaccgggt gttgaacttg ggcgagcgcg agccgcggct gccgggcgccc 600
ccctccccct agcagcggag gaggggacaa gtgctcggag tccgggcggc caagaccgccc 660
cgccggccgg cactgcagg gtccgcactg atccgctccg cggggagagc cgctgctctg 720
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gaccgcgact tttcaaagcc gggtagcgcg cgcgagtcga caagtaagag tgcgggaggg 840
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gccagcgggt gcgtgcgctc ttagagaaac tttccctgtc aaaggctccg gggggcgcg 960
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cggatcaagg cggagaggaa gcgcagtagg aaccgcctcg ctgcctccaa gtgcccga 1860
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```

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tccgagctgg cgtccacggc caacatgctc agggaaacagg tggcacagct taaacagaaa 1920
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<210> 187

<211> 331

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3592543CD1

<400> 187

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          20          25          30
Pro Lys Ile Leu Lys Gln Ser Met Thr Leu Asn Leu Ala Asp Pro
          35          40          45
Val Gly Ser Leu Lys Pro His Leu Arg Ala Lys Asn Ser Asp Leu
          50          55          60
Leu Thr Ser Pro Asp Val Gly Leu Leu Lys Leu Ala Ser Pro Glu
          65          70          75
Leu Glu Arg Leu Ile Ile Gln Ser Ser Asn Gly His Ile Thr Thr
          80          85          90
Thr Pro Thr Pro Thr Gln Phe Leu Cys Pro Lys Asn Val Thr Asp
          95          100          105
Glu Gln Glu Gly Phe Ala Glu Gly Phe Val Arg Ala Leu Ala Glu
          110          115          120
Leu His Ser Gln Asn Thr Leu Pro Ser Val Thr Pro Ala Ala Gln
          125          130          135
Arg Cys Asn Gly Ala Gly Met Val Ala Pro Ala Val Ala Ser Val
          140          145          150
Ala Gly Gly Ser Gly Ser Val Gly Phe Ser Ala Ser Leu His Ser
          155          160          165
Glu Pro Pro Val Tyr Ala Asn Leu Ser Asn Phe Asn Pro Gly Ala
          170          175          180
Leu Ser Ser Gly Gly Gly Ala Pro Ser Tyr Gly Ala Ala Gly Leu
          185          190          195
Ala Phe Pro Ala Gln Pro Gln Gln Gln Gln Gln Pro Pro His His
          200          205          210
Leu Pro Gln Gln Met Pro Val Gln His Pro Arg Leu Gln Ala Leu
          215          220          225
Lys Glu Glu Pro Gln Thr Val Pro Glu Met Pro Gly Glu Thr Pro
          230          235          240
Pro Leu Ser Pro Ile Asp Met Glu Ser Gln Glu Arg Ile Lys Ala
          245          250          255
Glu Arg Lys Arg Met Arg Asn Arg Ile Ala Ala Ser Lys Cys Arg
          260          265          270
Lys Arg Lys Leu Glu Arg Ile Ala Arg Leu Glu Glu Lys Val Lys
          275          280          285
Thr Leu Lys Ala Gln Asn Ser Glu Leu Ala Ser Thr Ala Asn Met
```


PA-0035 US

```

                290                295                300
Leu Arg Glu Gln Val Ala Gln Leu Lys Gln Lys Val Met Asn His
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Val Asn Ser Gly Cys Gln Leu Met Leu Thr Gln Gln Leu Gln Thr
                320                325                330
Phe
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<210> 188
<211> 1427
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 048612.12c

<220>
<221> unsure
<222> 217-266
<223> a, t, c, g, or other

<400> 188
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tcattcttggc caagattttt ccaaagggtat taaatatatt ttcaataaca gtacatacaa 180
atacacatac acaaataacac cacacagaca catgtgnnnn nnnnnnnnnn nnnnnnnnnn 240
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gcactcaggg cctgattaca tctggcttat tctttgcttc aaggcaagga tctctctctc 660
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tgcagccgct gtggcctctg atctcatggc cgccccaca aagactccat gttgccagct 1140
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gaggctttga aattcagact ccacaaccag tgggtgttatt cacaacacgg aaagacacgg 1260
caagacaata actttgtaat cgagctagtt ttgcgttcac caagctaaat tgcagaaaac 1320
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caatagatca gggattcaga aaggttccag gtgaccagaa gggtttg 1427

<210> 189
<211> 2666
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 048612.13

PA-0035 US

<220>

<221> unsure

<222> 2365, 2367-2399

<223> a, t, c, g, or other

<400> 189

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cctggacagc ctaccccagg cagtgagggg gtttctcgag aataacgctg agctgtgtca 240
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gatggaggaa gagggcaccc tcaggcggct gaagaagtat gacaactgct ggttggctct 360
cactgacccc agggatgtgg ccaggatcga aagcaagacg gttatcgtca cccaagagca 420
aagagacaca gtgcccaccc ccaaaacagg cctcagccag ctcggtcgct ggatgtcaga 480
ggaggatttt gagaaagcgt tcaatgccag gttcccaggg tgcataaaag gtcgcacccat 540
gtacgtcatc ccattcagca tggggccgct gggctcacct ctgtcgaaga tcggcatcga 600
gctgacggat tcgcctacg tgggtggccag catgcggatc atgacgcgga tgggcacgcc 660
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ttacaaaatg aagttttata gaaaag 2666
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<210> 190

<211> 2358

<212> DNA

<213> Homo sapiens

PA-0035 US

<220>

<221> misc_feature

<223> Incyte ID No: 245259.16

<400> 190

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<210> 191

<211> 1273

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 522433CB1

<400> 191

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gcgagccgcg caagtttccc gggaccctca gagttgcaca ccgaagactc cagattccga 180
gagttgcgga aacgctacga ggacctgcta accaggtctg gggccaacca gagctgggaa 240
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ctgggatccg gcggccacct gcacctgcgt atctctcggg ccgcccttcc cgagggggtc 360
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<210> 192

<211> 308

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 522433CD1

<400> 192

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20         25         30
Ser Leu Ala Glu Ala Ser Arg Ala Ser Phe Pro Gly Pro Ser Glu
35         40         45
Leu His Thr Glu Asp Ser Arg Phe Arg Glu Leu Arg Lys Arg Tyr
50         55         60
Glu Asp Leu Leu Thr Arg Leu Arg Ala Asn Gln Ser Trp Glu Asp
65         70         75
Ser Asn Thr Asp Leu Val Pro Ala Pro Ala Val Arg Ile Leu Thr
80         85         90
Pro Glu Val Arg Leu Gly Ser Gly Gly His Leu His Leu Arg Ile
95        100        105
Ser Arg Ala Ala Leu Pro Glu Gly Leu Pro Glu Ala Ser Arg Leu
110       115       120
His Arg Ala Leu Phe Arg Leu Ser Pro Thr Ala Ser Arg Ser Trp
125       130       135
Asp Val Thr Arg Pro Leu Arg Arg Gln Leu Ser Leu Ala Arg Pro
140       145       150
Gln Ala Pro Ala Leu His Leu Arg Leu Ser Pro Pro Pro Ser Gln
155       160       165
Ser Asp Gln Leu Leu Ala Glu Ser Ser Ser Ala Arg Pro Gln Leu

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Glu Leu His Leu	Arg Pro Gln Ala Ala	Arg Gly Arg Arg Arg	Ala		
	185		190		195
Arg Ala Arg Asn	Gly Asp His Cys Pro	Leu Gly Pro Gly Arg	Cys		
	200		205		210
Cys Arg Leu His	Thr Val Arg Ala Ser	Leu Glu Asp Leu Gly	Trp		
	215		220		225
Ala Asp Trp Val	Leu Ser Pro Arg Glu	Val Gln Val Thr Met	Cys		
	230		235		240
Ile Gly Ala Cys	Pro Ser Gln Phe Arg	Ala Ala Asn Met His	Ala		
	245		250		255
Gln Ile Lys Thr	Ser Leu His Arg Leu	Lys Pro Asp Thr Val	Pro		
	260		265		270
Ala Pro Cys Cys	Val Pro Ala Ser Tyr	Asn Pro Met Val Leu	Ile		
	275		280		285
Gln Lys Thr Asp	Thr Gly Val Ser Leu	Gln Thr Tyr Asp Asp	Leu		
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Leu Ala Lys Asp	Cys His Cys Ile				
	305				

<210> 193

<211> 372

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1040667.43

<220>

<221> unsure

<222> 48

<223> a, t, c, g, or other

<400> 193

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cttgtagcca atttctggga ttctggaagg	cctcgagccg ctcgagccga attcggctcg	180
agttctcaca taacagtaga aaaccaaatt	ttgttgcat ctcttcaaag aatcgagaat	240
tgcgtacaaa aaaaacctta cataattaag	aatgaataca ttacaggcg taaatgcaaa	300
ccgattccaa ctcaaagcaa gtaacagccc	acggtgttct ggccaaagtc atcagctaag	360
aaaggaaact gg		372

<210> 194

<211> 558

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2048551CB1

<400> 194

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aatgtacctc ctgcaagaag tgctgtgctt	cttgctgccc cgtgggctgt gccaaagtgtg	180
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PA-0035 US

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tcgggggcgg acccccctag tctattcagc ccaccggata ttactccgc cgatgaaaac 480
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<210> 195

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2048551CD1

<400> 195

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				20					25					30
Lys	Cys	Cys	Cys	Ser	Cys	Cys	Pro	Val	Gly	Cys	Ala	Lys	Cys	Ala
				35					40					45
Gln	Gly	Cys	Val	Cys	Lys	Gly	Ser	Ser	Glu	Lys	Cys	Arg	Cys	Cys
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<210> 196

<211> 3033

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 1969731CB1

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PA-0035 US

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 ttattccttt ccaataatta ttacattcta aattttctc tatgagaaat aacaacaag 3660
 aagggaatag aattaaattg gggataatc taatcttcat tgtttaaatg gtttgccttc 3720
 tcaccattga agccattttt ttatagcctc agaaagagga aataatgcct ccaccatttt 3780
 ctacctggtg acttgaaaat tgaactttta agtttaggaag aagttagagt cagggaactt 3840
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<210> 200

<211> 697

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2120743CD1

PA-0035 US

<400> 200

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Ala	Met	Thr	Arg	Leu	Glu	Glu	Val	Asn	Arg	Glu	Val	Asn	Met	His
				20					25					30
Ser	Ser	Val	Arg	Tyr	Leu	Gly	Tyr	Leu	Ala	Arg	Ile	Asn	Leu	Leu
				35					40					45
Val	Ala	Ile	Cys	Leu	Gly	Leu	Tyr	Val	Arg	Trp	Glu	Lys	Thr	Ala
				50					55					60
Asn	Ser	Leu	Ile	Leu	Val	Ile	Phe	Ile	Leu	Gly	Leu	Phe	Val	Leu
				65					70					75
Gly	Ile	Ala	Ser	Ile	Leu	Tyr	Tyr	Tyr	Phe	Ser	Met	Glu	Ala	Ala
				80					85					90
Ser	Leu	Ser	Leu	Ser	Asn	Leu	Trp	Phe	Gly	Phe	Leu	Leu	Gly	Leu
				95					100					105
Leu	Cys	Phe	Leu	Asp	Asn	Ser	Ser	Phe	Lys	Asn	Asp	Val	Lys	Glu
				110					115					120
Glu	Ser	Thr	Lys	Tyr	Leu	Leu	Leu	Thr	Ser	Ile	Val	Leu	Arg	Ile
				125					130					135
Leu	Cys	Ser	Leu	Val	Glu	Arg	Ile	Ser	Gly	Tyr	Val	Arg	His	Arg
				140					145					150
Pro	Thr	Leu	Leu	Thr	Thr	Val	Glu	Phe	Leu	Glu	Leu	Val	Gly	Phe
				155					160					165
Ala	Ile	Ala	Ser	Thr	Thr	Met	Leu	Val	Glu	Lys	Ser	Leu	Ser	Val
				170					175					180
Ile	Leu	Leu	Val	Val	Ala	Leu	Ala	Met	Leu	Ile	Ile	Asp	Leu	Arg
				185					190					195
Met	Lys	Ser	Phe	Leu	Ala	Ile	Pro	Asn	Leu	Val	Ile	Phe	Ala	Val
				200					205					210
Leu	Leu	Phe	Phe	Ser	Ser	Leu	Glu	Thr	Pro	Lys	Asn	Pro	Ile	Ala
				215					220					225
Phe	Ala	Cys	Phe	Phe	Ile	Cys	Leu	Ile	Thr	Asp	Pro	Phe	Leu	Asp
				230					235					240
Ile	Tyr	Phe	Ser	Gly	Leu	Ser	Val	Thr	Glu	Arg	Trp	Lys	Pro	Phe
				245					250					255
Leu	Tyr	Arg	Gly	Arg	Ile	Cys	Arg	Arg	Leu	Ser	Val	Val	Phe	Ala
				260					265					270
Gly	Met	Ile	Glu	Leu	Thr	Phe	Phe	Ile	Leu	Ser	Ala	Phe	Lys	Leu
				275					280					285
Arg	Asp	Thr	His	Leu	Trp	Tyr	Phe	Val	Ile	Pro	Gly	Phe	Ser	Ile
				290					295					300
Phe	Gly	Ile	Phe	Trp	Met	Ile	Cys	His	Ile	Ile	Phe	Leu	Leu	Thr
				305					310					315
Leu	Trp	Gly	Phe	His	Thr	Lys	Leu	Asn	Asp	Cys	His	Lys	Val	Tyr
				320					325					330
Phe	Thr	His	Arg	Thr	Asp	Tyr	Asn	Ser	Leu	Asp	Arg	Ile	Met	Ala
				335					340					345
Ser	Lys	Gly	Met	Arg	His	Phe	Cys	Leu	Ile	Ser	Glu	Gln	Leu	Val
				350					355					360
Phe	Phe	Ser	Leu	Leu	Ala	Thr	Ala	Ile	Leu	Gly	Ala	Val	Ser	Trp
				365					370					375
Gln	Pro	Thr	Asn	Gly	Ile	Phe	Leu	Ser	Met	Phe	Leu	Ile	Val	Leu
				380					385					390
Pro	Leu	Glu	Ser	Met	Ala	His	Gly	Leu	Phe	His	Glu	Leu	Gly	Asn
				395					400					405
Cys	Leu	Gly	Gly	Thr	Ser	Val	Gly	Tyr	Ala	Ile	Val	Ile	Pro	Thr

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Asn Phe Cys Ser	410	415	420
Pro Asp Gly Gln Pro	425	430	435
Thr Leu Leu Pro Pro	440	445	450
His Val Gln Glu	455	460	465
Leu Asn Leu Arg Ser	470	475	480
Thr Gly Met Leu Asn	485	490	495
Ile Gln Arg Phe	500	505	510
Phe Ala Tyr His Met	515	520	525
Ile Glu Thr Tyr Gly	530	535	540
Cys	545	550	555
Asp Tyr Ser Thr	560	565	570
Ser Gly Leu Ser Phe	575	580	585
Asp Thr Leu His Ser	590	595	600
Lys	605	610	615
Leu Lys Ala Phe	620	625	630
Leu Glu Leu Arg Thr	635	640	645
Val Asp Gly Pro Arg	650	655	660
His	665	670	675
Asp Thr Tyr Ile	680	685	690
Leu Tyr Tyr Ser Gly			
His Thr His Gly Thr			
Gly			
Glu Trp Ala Leu			
Ala Gly Gly Asp Thr			
Leu Arg Leu Asp Thr			
Leu			
Ile Glu Trp Trp			
Arg Glu Lys Asn Gly			
Ser Phe Cys Ser Arg			
Leu			
Ile Ile Val Leu			
Asp Ser Glu Asn Ser			
Thr Pro Trp Val Lys			
Glu			
Val Arg Lys Ile			
Asn Asp Gln Tyr Ile			
Ala Val Gln Gly Ala			
Glu			
Leu Ile Lys Thr			
Val Asp Ile Glu Glu			
Ala Asp Pro Pro Gln			
Leu			
Gly Asp Phe Thr			
Lys Asp Trp Val Glu			
Tyr Asn Cys Asn Ser			
Ser			
Asn Asn Ile Cys			
Trp Thr Glu Lys Gly			
Arg Thr Val Lys Ala			
Val			
Tyr Gly Val Ser			
Lys Arg Trp Ser Asp			
Tyr Thr Leu His Leu			
Pro			
Thr Gly Ser Asp			
Val Ala Lys His Trp			
Met Leu His Phe Pro			
Arg			
Ile Thr Tyr Pro			
Leu Val His Leu Ala			
Asn Trp Leu Cys Gly			
Leu			
Asn Leu Phe Trp			
Ile Cys Lys Thr Cys			
Phe Arg Cys Leu Lys			
Arg			
Leu Lys Met Ser			
Trp Phe Leu Pro Thr			
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Gln			
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<211> 436

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3551330CB1

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tgggcaagga ctggcatcgg ccctgcctga agtgcgagaa atgtgggaag acgctgacct 180
ctgggggcca cgctgagcac gaaggcaaac cctactgcaa ccaccctgc tacgcagcca 240
tgtttgggcc taaaggcttt gggcggggcg gagccgagag ccacactttc aagtaaacca 300
ggtggtggag accccatcct tggctgcttg cagggccact gtccaggcaa atgccaggcc 360
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436

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<211> 77
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<213> Homo sapiens

<220>
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<223> Incyte ID No: 3551330CD1

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20 25 30
Cys Glu Lys Cys Gly Lys Thr Leu Thr Ser Gly Gly His Ala Glu
35 40 45
His Glu Gly Lys Pro Tyr Cys Asn His Pro Cys Tyr Ala Ala Met
50 55 60
Phe Gly Pro Lys Gly Phe Gly Arg Gly Gly Ala Glu Ser His Thr
65 70 75
Phe Lys

<210> 203
<211> 2336
<212> DNA
<213> Homo sapiens

<220>
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acgggagctc gcggtgggca tcgacctggg caccacctac tcgtgcgtgg gcgtgtttca 180
gcagggccgc gtggagatcc tggccaacga ccagggcaac cgcaccacgc ccagctacgt 240
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aaataaaaag tcattaattt attaaaactt gtgtggcact ttaacattgc tttcacctat 2280
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<210> 204

<211> 643

<212> PRT

<213> Homo sapiens

<220>

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<223> Incyte ID No: 1440032CD1

<400> 204

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  20          25          30
Leu Ala Asn Asp Gln Gly Asn Arg Thr Thr Pro Ser Tyr Val Ala
  35          40          45
Phe Thr Asp Thr Glu Arg Leu Val Gly Asp Ala Ala Lys Ser Gln
  50          55          60
Ala Ala Leu Asn Pro His Asn Thr Val Phe Asp Ala Lys Arg Leu
  65          70          75
Ile Gly Arg Lys Phe Ala Asp Thr Thr Val Gln Ser Asp Met Lys
  80          85          90
His Trp Pro Phe Arg Val Val Ser Glu Gly Gly Lys Pro Lys Val
  95          100         105
Arg Val Cys Tyr Arg Gly Glu Asp Lys Thr Phe Tyr Pro Glu Glu
  110         115         120
Ile Ser Ser Met Val Leu Ser Lys Met Lys Glu Thr Ala Glu Ala
  125         130         135
Tyr Leu Gly Gln Pro Val Lys His Ala Val Ile Thr Val Pro Ala
  140         145         150
Tyr Phe Asn Asp Ser Gln Arg Gln Ala Thr Lys Asp Ala Gly Ala
  155         160         165
Ile Ala Gly Leu Asn Val Leu Arg Ile Ile Asn Glu Pro Thr Ala
  170         175         180
Ala Ala Ile Ala Tyr Gly Leu Asp Arg Arg Gly Ala Gly Glu Arg
  185         190         195
Asn Val Leu Ile Phe Asp Leu Gly Gly Gly Thr Phe Asp Val Ser
  200         205         210
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Val	Leu	Ser	Ile	Asp	Ala	Gly	Val	Phe	Glu	Val	Lys	Ala	Thr	Ala			
				215					220					225			
Gly	Asp	Thr	His	Leu	Gly	Gly	Glu	Asp	Phe	Asp	Asn	Arg	Leu	Val			
				230					235					240			
Asn	His	Phe	Met	Glu	Glu	Phe	Arg	Arg	Lys	His	Gly	Lys	Asp	Leu			
				245					250					255			
Ser	Gly	Asn	Lys	Arg	Ala	Leu	Arg	Arg	Leu	Arg	Thr	Ala	Cys	Glu			
				260					265					270			
Arg	Ala	Lys	Arg	Thr	Pro	Ser	Ser	Ser	Thr	Gln	Ala	Thr	Leu	Glu			
				275					280					285			
Ile	Asp	Ser	Leu	Phe	Glu	Gly	Val	Asp	Phe	Tyr	Thr	Ser	Ile	Thr			
				290					295					300			
Arg	Ala	Arg	Phe	Glu	Glu	Leu	Cys	Ser	Asp	Leu	Phe	Arg	Ser	Thr			
				305					310					315			
Leu	Glu	Pro	Val	Glu	Lys	Ala	Leu	Arg	Asp	Ala	Lys	Leu	Asp	Lys			
				320					325					330			
Ala	Gln	Ile	His	Asp	Val	Val	Leu	Val	Gly	Gly	Ser	Thr	Arg	Ile			
				335					340					345			
Pro	Lys	Val	Gln	Lys	Leu	Leu	Gln	Asp	Phe	Phe	Asn	Gly	Lys	Glu			
				350					355					360			
Leu	Asn	Lys	Ser	Ile	Asn	Pro	Asp	Glu	Ala	Val	Ala	Tyr	Gly	Ala			
				365					370					375			
Ala	Val	Gln	Ala	Ala	Val	Leu	Met	Gly	Asp	Lys	Cys	Glu	Lys	Val			
				380					385					390			
Gln	Asp	Leu	Leu	Leu	Leu	Asp	Val	Ala	Pro	Leu	Ser	Leu	Gly	Leu			
				395					400					405			
Glu	Thr	Ala	Gly	Gly	Val	Met	Thr	Thr	Leu	Ile	Gln	Arg	Asn	Ala			
				410					415					420			
Thr	Ile	Pro	Thr	Lys	Gln	Thr	Gln	Thr	Phe	Thr	Thr	Tyr	Ser	Asp			
				425					430					435			
Asn	Gln	Pro	Gly	Val	Phe	Ile	Gln	Val	Tyr	Glu	Gly	Glu	Arg	Ala			
				440					445					450			
Met	Thr	Lys	Asp	Asn	Asn	Leu	Leu	Gly	Arg	Phe	Glu	Leu	Ser	Gly			
				455					460					465			
Ile	Pro	Pro	Ala	Pro	Arg	Gly	Val	Pro	Gln	Ile	Glu	Val	Thr	Phe			
				470					475					480			
Asp	Ile	Asp	Ala	Asn	Gly	Ile	Leu	Ser	Val	Thr	Ala	Thr	Asp	Arg			
				485					490					495			
Ser	Thr	Gly	Lys	Ala	Asn	Lys	Ile	Thr	Ile	Thr	Asn	Asp	Lys	Gly			
				500					505					510			
Arg	Leu	Ser	Lys	Glu	Glu	Val	Glu	Arg	Met	Val	His	Glu	Ala	Glu			
				515					520					525			
Gln	Tyr	Lys	Ala	Glu	Asp	Glu	Ala	Gln	Arg	Asp	Arg	Val	Ala	Ala			
				530					535					540			
Lys	Asn	Ser	Leu	Glu	Ala	His	Val	Phe	His	Val	Lys	Gly	Ser	Leu			
				545					550					555			
Gln	Glu	Glu	Ser	Leu	Arg	Asp	Lys	Ile	Pro	Glu	Glu	Asp	Arg	Arg			
				560					565					570			
Lys	Met	Gln	Asp	Lys	Cys	Arg	Glu	Val	Leu	Ala	Trp	Leu	Glu	His			
				575					580					585			
Asn	Gln	Leu	Ala	Glu	Lys	Glu	Glu	Tyr	Glu	His	Gln	Lys	Arg	Glu			
				590					595					600			
Leu	Glu	Gln	Ile	Cys	Arg	Pro	Ile	Phe	Ser	Arg	Leu	Tyr	Gly	Gly			
				605					610					615			
Pro	Gly	Val	Pro	Gly	Gly	Ser	Ser	Cys	Gly	Thr	Gln	Ala	Arg	Gln			
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<210> 205
<211> 775
<212> DNA
<213> Homo sapiens

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<222> 43
<223> a, t, c, g, or other

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cggattgttt taagaaaatg gcagacaaac ccagacatgg gggaaatcgc cagcttcgat 240
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aatttcctaa gatcctggag gatttcctac ccccgctcctc ttcgagaccc cagtcgtgat 420
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ccaaattctc cggtttgccc cgggatatta tagaaaatta tttgtatgaa taatgaaact 600
tcccaccaa aaaaagtgc atatttttgt aagtgtttgt cctagaggga aaaaacaact 660
gaaatttaca ttagcagtc tgtgcaagat tcttacataa ttcaagacct aaaaccagcc 720
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<211> 556
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 4020439CB1

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<212> PRT
<213> Homo sapiens

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<220>

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<223> Incyte ID No: 4020439CD1

<400> 207

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Gly	His	Val	Gln	Pro	Ile	Cys	Asp	Thr	Asn	Cys	Ala	Gln	Cys	Val
				20					25					30
Pro	Lys	Asp	Lys	Ala	Ile	Asn	Lys	Phe	Ile	Ile	Gly	Asn	Thr	Val
				35					40					45
Glu	Ala	Ala	Ala	Val	Arg	Asp	Ile	Ser	Glu	Ala	Ser	Val	Phe	Asp
				50					55					60
Ala	Tyr	Val	Leu	Pro	Lys	Leu	Tyr	Leu	Lys	Leu	His	Tyr	Cys	Leu
				65					70					75
Ser	Cys	Ala	Ile	His	Ser	Lys	Val	Val	Arg	Asn	Arg	Ser	Arg	Glu
				80					85					90
Ala	Arg	Lys	Asp	Arg	Thr	Pro	Pro	Pro	Arg	Phe	Arg	Pro	Ala	Gly
				95					100					105
Ala	Ala	Pro	Arg	Pro	Pro	Pro	Lys	Pro	Met					
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<210> 208

<211> 4240

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 2507087CB1

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ctctccccc	gcctccagca	atgaccaatg	aagctggagc	tcctcggctt	atgataactc	360
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Thr	Gln	Leu	Asp	Leu	Glu	Asp	Val	Gln	Val	Arg	Glu	Lys	Leu	Lys
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Gln Arg Leu Ile Glu	Gln Glu Glu Tyr Leu	Asn Val Gln Val Lys			

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Cys Ala Ser Ala Ile Thr Lys Ala Gln	Val Ala Ile Lys Thr Ala				
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Ala Arg Cys His Glu Met Lys Pro Asn	Leu Gly Ala Ile Ala Glu				
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Ser Glu Gly Ile Met Phe Ser Val Arg	Pro Pro Lys Lys Ser Trp				
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Leu Ala Leu Val Phe Ala Leu His His	Tyr Lys Pro Thr Pro Leu				
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Tyr Phe Met Asp Glu Ile Asp Ala Ala	Leu Asp Phe Lys Asn Val				
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Ser Ile Val Ala Phe Tyr Ile Tyr Glu	Gln Thr Lys Asn Ala Gln				
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Phe Ile Ile Ile Ser Leu Arg Asn Asn	Met Phe Glu Ile Ser Asp				

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PA-0035 US

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<210> 224

<211> 990

<212> DNA

PA-0035 US

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1720847CB1

<400> 224

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<210> 225

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1720847CD1

<400> 225

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Ser Thr Glu Leu Gly Ile Met Gly Ser Trp Phe Tyr Leu Phe Leu
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Ala Pro Leu Phe Lys Gly Leu Ala Gly Ser Leu Pro Phe Gly Cys
          35          40          45
Leu Ser Leu Leu Gln Pro Thr Glu Lys Thr Ala Leu Gln Arg Trp
          50          55          60
Arg Val Phe Met Lys His Ser Cys Gln Glu Pro Arg His Arg Ala
          65          70          75
Gly Gly Leu Glu Lys Gly Gly His Thr Gly Gly Gly Arg Ser Trp
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<210> 226

<211> 201

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 333776.1c

PA-0035 US

<220>

<221> unsure

<222> 27, 43

<223> a, t, c, g, or other

<400> 226

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<210> 227

<211> 1278

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3478236CB1

<400> 227

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cccagactcc ccaagccttc gagagcggcg cacactcccg gtctccactc gctcttccaa 180
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<210> 228

<211> 252

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3478236CD1

<400> 228

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1          5          10          15
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Asp Thr Tyr Ser Gly Lys Arg Glu Pro Phe Ser Gly Asp His Ser
35 40 45
Ala Asp Gly Phe Glu Val Thr Ser Arg Ser Glu Met Ser Ser Gly
50 55 60
Ser Glu Ile Ser Pro Val Ser Glu Met Pro Ser Ser Ser Glu Pro
65 70 75
Ser Ser Gly Ala Asp Tyr Asp Tyr Ser Glu Glu Tyr Asp Asn Glu
80 85 90
Pro Gln Ile Pro Gly Tyr Ile Val Asp Asp Ser Val Arg Val Glu
95 100 105
Gln Val Val Lys Pro Pro Gln Asn Lys Thr Glu Ser Glu Asn Thr
110 115 120
Ser Asp Lys Pro Lys Arg Lys Lys Lys Gly Gly Lys Asn Gly Lys
125 130 135
Asn Arg Arg Asn Arg Lys Lys Lys Asn Pro Cys Asn Ala Glu Phe
140 145 150
Gln Asn Phe Cys Ile His Gly Glu Cys Lys Tyr Ile Glu His Leu
155 160 165
Glu Ala Val Thr Cys Lys Cys Gln Gln Glu Tyr Phe Gly Glu Arg
170 175 180
Cys Gly Glu Lys Ser Met Lys Thr His Ser Met Ile Asp Ser Ser
185 190 195
Leu Ser Lys Ile Ala Leu Ala Ala Ile Ala Ala Phe Met Ser Ala
200 205 210
Val Ile Leu Thr Ala Val Ala Val Ile Thr Val Gln Leu Arg Arg
215 220 225
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<210> 229

<211> 5060

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 147541.17

<220>

<221> unsure

<222> 1806-1826

<223> a, t, c, g, or other

<400> 229

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<210> 230

<211> 5056

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 331120.16c

<220>

<221> unsure

<222> 433-455

<223> a, t, c, g, or other

<400> 230

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<211> 798

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 575983CB1

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<211> 165

<212> PRT

<213> Homo sapiens

<220>

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<223> Incyte ID No: 575983CD1

<400> 232

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Lys Lys Ile Lys Glu His Val Arg Ser Lys Thr Lys Val Pro Val
             35             40             45
Gln Asp Gln Val Leu Leu Leu Gly Ser Lys Ile Leu Lys Pro Arg
             50             55             60
Arg Ser Leu Ser Ser Tyr Gly Ile Asp Lys Glu Lys Thr Ile His
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Gly	Lys	Arg	Leu	Glu	Asp	Gly	Lys	Met	Met	Ala	Asp	Tyr	Gly	Ile
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<211> 5165

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<223> Incyte ID No: 413268.6

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<400> 233

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<211> 2678

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1989186CB1

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Cys Ser Glu Ser Ala Ser Gln Asn Asp Asp Gly Ser Arg Ser Lys
50 55 60
Asp Glu Thr Arg Val Ser Thr Asn Gly Ser Asp Asp Pro Glu Asp
65 70 75
Ala Gly Ala Gly Glu Asn Arg Arg Val Ser Gly Asn Asn Ser Pro
80 85 90
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95 100 105
Ser Arg Pro Pro Pro Pro Thr Pro Arg Arg Pro Ala Ser Val Asn
110 115 120
Gly Ser Pro Ser Ala Thr Ser Glu Ser Asp Gly Ser Ser Thr Gly
125 130 135
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140 145 150
Thr Ser Gly Leu Ile Ile Pro Leu Thr Ile Ser Gly Gly Ser Gly
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Pro Arg Pro Leu Asn Pro Val Thr Gln Ala Pro Leu Pro Pro Gly
170 175 180
Trp Glu Gln Arg Val Asp Gln His Gly Arg Val Tyr Tyr Val Asp
185 190 195
His Val Glu Lys Arg Thr Thr Trp Asp Arg Pro Glu Pro Leu Pro
200 205 210
Pro Gly Trp Glu Arg Arg Val Asp Asn Met Gly Arg Ile Tyr Tyr
215 220 225
Val Asp His Phe Thr Arg Thr Thr Thr Trp Gln Arg Pro Thr Leu
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260 265 270
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275 280 285
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Gly Lys Ser Ala	Leu Asp Asn Gly Pro	Gln Ile Ala Tyr Val	Arg		
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His Glu Val Leu	Asn Pro Met Tyr Cys	Leu Phe Glu Tyr Ala	Gly		
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Lys Asp Asn Tyr	Cys Leu Gln Ile Asn	Pro Ala Ser Tyr Ile	Asn		
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Val Asp Lys Glu	Ile Leu Gly Glu Ile	Lys Ser His Asp Leu	Lys		
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Pro Asn Gly Gly	Asn Ile Leu Val Thr	Glu Glu Asn Lys Glu	Glu		
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Tyr Ile Arg Met	Val Ala Glu Trp Arg	Leu Ser Arg Gly Val	Glu		
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Glu Gln Thr Gln	Ala Phe Phe Glu Gly	Phe Asn Glu Ile Leu	Pro		
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Gln Gln Tyr Leu	Gln Tyr Phe Asp Ala	Lys Glu Leu Glu Val	Leu		
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Leu Cys Gly Met	Gln Glu Ile Asp Leu	Asn Asp Trp Gln Arg	His		
	635		640		645
Ala Ile Tyr Arg	His Tyr Ala Arg Thr	Ser Lys Gln Ile Met	Trp		
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Phe Trp Gln Phe	Val Lys Glu Ile Asp	Asn Glu Lys Arg Met	Arg		
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Leu Leu Gln Phe	Val Thr Gly Thr Cys	Arg Leu Pro Val Gly	Gly		
	680		685		690
Phe Ala Asp Leu	Met Gly Ser Asn Gly	Pro Gln Lys Phe Cys	Ile		
	695		700		705
Glu Lys Val Gly	Lys Glu Asn Trp Leu	Pro Arg Ser His Thr	Cys		
	710		715		720
Phe Asn Arg Leu	Asp Leu Pro Pro Tyr	Lys Ser Tyr Glu Gln	Leu		
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745

750

Gln Glu

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 <222> 52, 57
 <223> a, t, c, g, or other

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<211> 2254

<212> DNA

<213> Homo sapiens

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<221> unsure

<222> 231, 241

<223> a, t, c, g, or other

<400> 238

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ccatcgtgtg caacagcaag gacggcgggg cctggggggac cgagcagcgg gaggtgtct 300
ttcccttcca gcctggaagt gttgcagagg tgtgcatcac cttcgaccag gccaacctga 360
ccgtcaagct gccagatgga tacgaattca agttcccca cgcctcaac ctggaggcca 420
tcaactacat ggcagctgac ggtgacttca agatcaaata tgtggccttt gactgaaatc 480
agccagccca tggcccca taaaggcagc tgcctctgct ccctctgaaa aaaaaaaa 538
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<210> 242

<211> 135

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 697785CD1

<400> 242

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Met Ala Cys Gly Leu Val Ala Ser Asn Leu Asn Leu Lys Pro Gly
  1          5          10          15
Glu Cys Leu Arg Val Arg Gly Glu Val Ala Pro Asp Ala Lys Ser
          20          25          30
Phe Val Leu Asn Leu Gly Lys Asp Ser Asn Asn Leu Cys Leu His
          35          40          45
Phe Asn Pro Arg Phe Asn Ala His Gly Asp Ala Asn Thr Ile Val
          50          55          60
Cys Asn Ser Lys Asp Gly Gly Ala Trp Gly Thr Glu Gln Arg Glu
          65          70          75
Ala Val Phe Pro Phe Gln Pro Gly Ser Val Ala Glu Val Cys Ile
          80          85          90
Thr Phe Asp Gln Ala Asn Leu Thr Val Lys Leu Pro Asp Gly Tyr
          95          100         105
Glu Phe Lys Phe Pro Asn Arg Leu Asn Leu Glu Ala Ile Asn Tyr
          110         115         120
Met Ala Ala Asp Gly Asp Phe Lys Ile Lys Cys Val Ala Phe Asp
          125         130         135
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<210> 243

<211> 3763

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 346209.3

<400> 243

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aggaggagga gaaggtcaag agcctcaata agctacggct caaatatgag gccacaatcg 180
```

cagacatgga ggaccgccta cggaaggagg agaaggggtcg ccaggagctg gagaagctga 240
 agcggagggt ggatggggag agctcagagc tgcaggagca gatggtggag cagcaacagc 300
 gggcagagga gctgcgggcc cagctgggcc ggaaggagga ggagctgcag gctgccctgg 360
 ccagggcaga agacgagggt ggggcccggg cccagctgct gaaatccctg cgggagggtc 420
 aagcagccct ggccgaggcc caggaggacc tggagtctga gcgtgtggcc aggaccaagg 480
 cggagaagca gcgcggggac ctgggcgagg agctggaggc gctgcggggc gagctggagg 540
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 cggagctgaa gaagactctg gaggaggaga ctgcgcatcca cgaggcggca gtgcaggagc 660
 tgaggcagcg ccacggccag gccctggggg agctggcgga gcagctggag caggcccgga 720
 ggggcaaagg tgcattgggag aagacccggc tggccctgga ggccgagggtg tccgagctgc 780
 gggcagaact gagcagcctg cagactgcac gtcaggagggt tgagcagcgg aggcgcgcgc 840
 tggagttaca gctgcaggag gtgcagggcc gggctggtga tggggagagg gcacgagcgg 900
 aggctgctga gaagctgcag cgagcccagg ctgaactgga gaatgtgtct ggggctgctga 960
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 ggggtgcgagc catggagggt gaggcagccg ggctgcgtga gcagctggag gaggaggcag 1140
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 ctacgccagt gcaaccatt cctctgtct ctctctctct atgtctgtgt ccgtccctct 3420
 ccttccctac cctctcacca tcttcttgg cctctctgag ggtctctctg tgcattcttt 3480
 taggaatctc gctctcactc tctacgtag cactctcctt ccccatctt tgcgtccacc 3540

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```
cctgaactcc tgagcgacag aagccccagg cctccaccag ccttgaaccc ttgcaaaggg 3600
gcaggacaag gggacccctc tctctcctgc tgctgcccac gctctgccct cccttctggg 3660
tgctctgagg gttcggagct tccctctggg actaaaggag tgctcctttac cctcccagcc 3720
tccaggctct ggcagaaata aactccaacc cgactgggacc atc 3763
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<210> 244

<211> 473

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 167772CB1

<400> 244

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gctcctgctc gcctgttggc tcctgtgcct gtgccggctc ctgcaaatgc aaagagtgc 180
aatgcacctc ctgcaagaag agctgctgct cctgctgccc tgtgggctgt gccaagtgtg 240
cccagggtcg catctgcaaa gggacgtcag acaagtgcag ctgctgtgcc tgatgccagg 300
acagctgtgc tctcagatgt aaatagagca acctatataa acctggattt tttttttttt 360
ttttttttgt acaaccctga cccgtttgct acatcttttt ttctatgaaa tatgtgaatg 420
gcaataaatt catctagact agaaaaaaaa aaaagaacaa aaaaaaaaaa agg 473
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<210> 245

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 167772CD1

<400> 245

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Met Asp Pro Asn Cys Ser Cys Ser Pro Val Gly Ser Cys Ala Cys
  1          5          10          15
Ala Gly Ser Cys Lys Cys Lys Glu Cys Lys Cys Thr Ser Cys Lys
          20          25          30
Lys Ser Cys Cys Ser Cys Cys Pro Val Gly Cys Ala Lys Cys Ala
          35          40          45
Gln Gly Cys Ile Cys Lys Gly Thr Ser Asp Lys Cys Ser Cys Cys
          50          55          60
Ala
```

<210> 246

<211> 1291

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2514988CB1

<220>

<221> unsure

<222> 46

PA-0035 US

<223> a, t, c, g, or other

<400> 246

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ggagggggcg ggacaggggg agccgtataa ttggacaagt ctgggaccc t gaggtcctac 120
tcagccccag cggaggtgaa ggacgtcctt ccccaggagc cgactggcca atcacaggca 180
ggaagatgaa ggttctgtgg gctgcgttgc tggtcacatt cctggcagga tgccaggcca 240
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agagcggcca gcgctgggaa ctggcactgg gtcgcttttg ggattacctg cgtctgggtgc 360
agacactgtc tgagcaggtg caggaggagc tgctcagctc ccaggtcacc cagggaactga 420
gggcgtgat ggacgagacc atgaaggagt tgaaggccta caaatcggaa ctggaggaac 480
aactgacccc ggtggcggag gagacgcggg cacggctgtc caaggagctg caggcggcgc 540
aggcccggct gggcgcgac atggaggacg tgtgcggccg cctggtgcag taccgcggcg 600
aggtgcaggc catgctcggc cagagcaccg aggagctgcg ggtgcgcctc gcctcccacc 660
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tgtaccaggc cggggcccg caggcgccg agcgcggcct cagcgccatc cgcgagcgcc 780
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tcaagagctg gttcgagccc ctggtggaag acatgcagcg ccagtgggccc gggctggtgg 1080
agaaggtgca ggctgccgtg ggcaccagcg ccgcccctgt gccagcgac aatcactgaa 1140
cgccgaagcc tgcagccatg cgacccacg ccaccccgct cctcctgcct ccgcgcagcc 1200
tgcagcggga gaccctgtcc ccgccccagc cgtcctcctg ggggtggacct tagtttaata 1260
aagattcacc aagtttcacg caaaaaaaaa a 1291
```

<210> 247

<211> 316

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2514988CD1

<400> 247

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Met Lys Val Leu Trp Ala Ala Leu Leu Val Thr Phe Leu Ala Gly
  1          5          10          15
Cys Gln Ala Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro
          20          25          30
Glu Leu Arg Gln Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu
          35          40          45
Leu Ala Leu Gly Arg Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr
          50          55          60
Leu Ser Glu Gln Val Gln Glu Glu Leu Leu Ser Ser Gln Val Thr
          65          70          75
Gln Glu Leu Arg Ala Leu Met Asp Glu Thr Met Lys Glu Leu Lys
          80          85          90
Ala Tyr Lys Ser Glu Leu Glu Glu Gln Leu Thr Pro Val Ala Glu
          95          100          105
Glu Thr Arg Ala Arg Leu Ser Lys Glu Leu Gln Ala Ala Gln Ala
          110          115          120
Arg Leu Gly Ala Asp Met Glu Asp Val Cys Gly Arg Leu Val Gln
          125          130          135
Tyr Arg Gly Glu Val Gln Ala Met Leu Gly Gln Ser Thr Glu Glu
          140          145          150
```

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Leu	Arg	Val	Arg	Leu	Ala	Ser	His	Leu	Arg	Lys	Leu	Arg	Lys	Arg	
				155					160					165	
Leu	Leu	Arg	Asp	Ala	Asp	Asp	Leu	Gln	Lys	Arg	Leu	Ala	Val	Tyr	
				170					175					180	
Gln	Ala	Gly	Ala	Arg	Glu	Gly	Ala	Glu	Arg	Gly	Leu	Ser	Ala	Ile	
				185					190					195	
Arg	Glu	Arg	Leu	Gly	Pro	Leu	Val	Glu	Gln	Gly	Arg	Val	Arg	Ala	
				200					205					210	
Ala	Thr	Val	Gly	Ser	Leu	Ala	Gly	Gln	Pro	Leu	Gln	Glu	Arg	Ala	
				215					220					225	
Gln	Ala	Trp	Gly	Glu	Arg	Leu	Arg	Ala	Arg	Met	Glu	Glu	Met	Gly	
				230					235					240	
Ser	Arg	Thr	Arg	Asp	Arg	Leu	Asp	Glu	Val	Lys	Glu	Gln	Val	Ala	
				245					250					255	
Glu	Val	Arg	Ala	Lys	Leu	Glu	Glu	Gln	Ala	Gln	Gln	Ile	Arg	Leu	
				260					265					270	
Gln	Ala	Glu	Ala	Phe	Gln	Ala	Arg	Leu	Lys	Ser	Trp	Phe	Glu	Pro	
				275					280					285	
Leu	Val	Glu	Asp	Met	Gln	Arg	Gln	Trp	Ala	Gly	Leu	Val	Glu	Lys	
				290					295					300	
Val	Gln	Ala	Ala	Val	Gly	Thr	Ser	Ala	Ala	Pro	Val	Pro	Ser	Asp	
				305					310					315	

Asn

<210> 248

<211> 857

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 481231.16

<400> 248

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ccaggctcgg	catttctggc	agcaagatga	acccccccag	agcccctggg	atcgagtga	180
ggacctggcc	actgtgtacg	tggatgtgct	caaagacagc	ggcagagact	atgtgtccca	240
gtttgaaggc	tccgccttgg	gaaaacagct	aaacctaaag	ctccttgaca	actgggacag	300
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ggataacctg	gaaaaggaga	cagagggcct	gaggcaggag	atgagcaagg	atctggagga	420
ggtgaaggcc	aaggtgcagc	cctacctgga	cgacttcag	aagaagtggc	aggaggagat	480
ggagctccac	cgccagaagc	tgcacgagct	gcaagagaag	ctgagcccac	tgggcgagga	540
gatgcgcgac	cgcgcgcgcg	cccatgtgga	cgcgctgcgc	acgcatcttg	ccccctacag	600
cgacgagctg	cgccagcgct	tggccgcgcg	ccttgaggct	ctcaaggaga	acggcggcgc	660
cagactggcc	gactaccacg	ccaaggccac	cgagcatctg	agcacgctca	gcgagaaggc	720
caagcccgcg	ctcgaggacc	tccgccaagg	cctgctgccc	gtgctggaga	gcttcaaggt	780
cagcttctctg	agcgtctctg	aggagtacac	taagaagctc	aacacccagt	gaggcgccccg	840
ccgccgcccc	ccttccc					857

<210> 249

<211> 2310

<212> DNA

<213> Homo sapiens

<220>

PA-0035 US

<221> misc_feature

<223> Incyte ID No: 481231.17

<400> 249

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caggcccttc ttctcctcca ggtccccac ggcccttcag gatgaaagct gcggtgctga 240
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ccccccagag cccctgggat cgagtgaagg acctggccac tgtgtacgtg gatgtgctca 360
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<210> 250

<211> 4200

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1045853.2

<220>

<221> unsure

<222> 128, 197, 395-532

<223> a, t, c, g, or other

<400> 250

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atgagtgnhc tgatgggggc caacattgcc agcgaggtgg ctgatgagaa gttctgtgag 180
acaaccattg gtgaganccc cctggcacct gcatacacag tgcatttagt tgcattcccc 240
ccccaactg ccccaacccc acttagccat ctctttccca taaggcagag aaaggaaaat 300
acaagcatca gaggtgaagg aggctgggac acccccaggg aaggggcttc agggccttgc 360
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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngtccttcc 540
ctcaaagcct tgccccctcc tcactttagg ctgcaaggac ccggcccagg acaactcctg 600
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<211> 1344

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<213> Homo sapiens

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<223> Incyte ID No: 336615.1

<400> 251

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<210> 252

<211> 1120

<212> DNA

<213> Homo sapiens

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<220>

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<223> Incyte ID No: 1328423.2

<220>

<221> unsure

<222> 12, 27, 33-34, 1070

<223> a, t, c, g, or other

<400> 252

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<211> 551

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 085282.1

<220>

<221> unsure

<222> 132

<223> a, t, c, g, or other

<400> 253

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atatcattgt aaacatttct atatttttag aaatatcttg ggtggcctga aacagaagt 480
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<210> 254
<211> 3814
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1081605.3

<220>
<221> unsure
<222> 3792, 3796-3801
<223> a, t, c, g, or other

<400> 254
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<213> Homo sapiens

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<221> unsure

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<211> 2622

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 480169.76

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 ccagacctct agctctcagg gaggccttgg cgggtctaagt ctgaccacag agccagtttc 180

PA-0035 US

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<210> 258

<211> 205

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2636043CD1

<400> 258

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 20          25          30
Thr Ser Ser Ser Gln Gly Gly Leu Gly Gly Leu Ser Leu Thr Thr
 35          40          45
Glu Pro Val Ser Ser Asn Pro Gly Tyr Ile Pro Ser Ser Glu Ala
 50          55          60
Asn Arg Pro Ser His Leu Ser Ser Thr Gly Thr Pro Gly Ala Gly
 65          70          75
Val Pro Ser Ser Gly Arg Asp Gly Gly Thr Ser Arg Asp Thr Phe
 80          85          90
Gln Thr Val Pro Pro Asn Ser Thr Thr Met Ser Leu Ser Met Arg
 95          100         105
Glu Asp Ala Thr Ile Leu Pro Ser Pro Thr Ser Glu Thr Val Leu
 110         115         120
Thr Val Ala Ala Phe Gly Val Ile Ser Phe Ile Val Ile Leu Val
 125         130         135
Val Val Val Ile Ile Leu Val Gly Val Val Ser Leu Arg Phe Lys
 140         145         150
Cys Arg Lys Ser Lys Glu Ser Glu Asp Pro Gln Lys Pro Gly Ser
 155         160         165
Ser Gly Leu Ser Glu Ser Cys Ser Thr Ala Asn Gly Glu Lys Asp
 170         175         180
Ser Ile Thr Leu Ile Ser Met Lys Asn Ile Asn Met Asn Asn Gly
 185         190         195
Lys Gln Ser Leu Ser Ala Glu Lys Val Leu
 200         205
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<210> 259

<211> 2539

<212> DNA

PA-0035 US

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2993696CB1

<400> 259

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<210> 260

<211> 654

<212> PRT

<213> Homo sapiens

PA-0035 US

<220>

<221> misc_feature

<223> Incyte ID No: 2993696CD1

<400> 260

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Ala	Arg	Ala	Glu	Glu	Glu	Asp	Lys	Lys	Glu	Asp	Val	Gly	Thr	Val
				20					25					30
Val	Gly	Ile	Asp	Leu	Gly	Thr	Thr	Tyr	Ser	Cys	Val	Gly	Val	Phe
				35					40					45
Lys	Asn	Gly	Arg	Val	Glu	Ile	Ile	Ala	Asn	Asp	Gln	Gly	Asn	Arg
				50					55					60
Ile	Thr	Pro	Ser	Tyr	Val	Ala	Phe	Thr	Pro	Glu	Gly	Glu	Arg	Leu
				65					70					75
Ile	Gly	Asp	Ala	Ala	Lys	Asn	Gln	Leu	Thr	Ser	Asn	Pro	Glu	Asn
				80					85					90
Thr	Val	Phe	Asp	Ala	Lys	Arg	Leu	Ile	Gly	Arg	Thr	Trp	Asn	Asp
				95					100					105
Pro	Ser	Val	Gln	Gln	Asp	Ile	Lys	Phe	Leu	Pro	Phe	Lys	Val	Val
				110					115					120
Glu	Lys	Lys	Thr	Lys	Pro	Tyr	Ile	Gln	Val	Asp	Ile	Gly	Gly	Gly
				125					130					135
Gln	Thr	Lys	Thr	Phe	Ala	Pro	Glu	Glu	Ile	Ser	Ala	Met	Val	Leu
				140					145					150
Thr	Lys	Met	Lys	Glu	Thr	Ala	Glu	Ala	Tyr	Leu	Gly	Lys	Lys	Val
				155					160					165
Thr	His	Ala	Val	Val	Thr	Val	Pro	Ala	Tyr	Phe	Asn	Asp	Ala	Gln
				170					175					180
Arg	Gln	Ala	Thr	Lys	Asp	Ala	Gly	Thr	Ile	Ala	Gly	Leu	Asn	Val
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Met	Arg	Ile	Ile	Asn	Glu	Pro	Thr	Ala	Ala	Ala	Ile	Ala	Tyr	Gly
				200					205					210
Leu	Asp	Lys	Arg	Glu	Gly	Glu	Lys	Asn	Ile	Leu	Val	Phe	Asp	Leu
				215					220					225
Gly	Gly	Gly	Thr	Phe	Asp	Val	Ser	Leu	Leu	Thr	Ile	Asp	Asn	Gly
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Val	Phe	Glu	Val	Val	Ala	Thr	Asn	Gly	Asp	Thr	His	Leu	Gly	Gly
				245					250					255
Glu	Asp	Phe	Asp	Gln	Arg	Val	Met	Glu	His	Phe	Ile	Lys	Leu	Tyr
				260					265					270
Lys	Lys	Lys	Thr	Gly	Lys	Asp	Val	Arg	Lys	Asp	Asn	Arg	Ala	Val
				275					280					285
Gln	Lys	Leu	Arg	Arg	Glu	Val	Glu	Lys	Ala	Lys	Arg	Ala	Leu	Ser
				290					295					300
Ser	Gln	His	Gln	Ala	Arg	Ile	Glu	Ile	Glu	Ser	Phe	Tyr	Glu	Gly
				305					310					315
Glu	Asp	Phe	Ser	Glu	Thr	Leu	Thr	Arg	Ala	Lys	Phe	Glu	Glu	Leu
				320					325					330
Asn	Met	Asp	Leu	Phe	Arg	Ser	Thr	Met	Lys	Pro	Val	Gln	Lys	Val
				335					340					345
Leu	Glu	Asp	Ser	Asp	Leu	Lys	Lys	Ser	Asp	Ile	Asp	Glu	Ile	Val
				350					355					360
Leu	Val	Gly	Gly	Ser	Thr	Arg	Ile	Pro	Lys	Ile	Gln	Gln	Leu	Val
				365					370					375
Lys	Glu	Phe	Phe	Asn	Gly	Lys	Glu	Pro	Ser	Arg	Gly	Ile	Asn	Pro

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Asp	Glu	Ala	Val	Ala	Tyr	Gly	Ala	Ala	Val	Gln	Ala	Gly	Val	Leu	380	385	390
Ser	Gly	Asp	Gln	Asp	Thr	Gly	Asp	Leu	Val	Leu	Leu	Asp	Val	Cys	395	400	405
Pro	Leu	Thr	Leu	Gly	Ile	Glu	Thr	Val	Gly	Gly	Val	Met	Thr	Lys	410	415	420
Leu	Ile	Pro	Arg	Asn	Thr	Val	Val	Pro	Thr	Lys	Lys	Ser	Gln	Ile	425	430	435
Phe	Ser	Thr	Ala	Ser	Asp	Asn	Gln	Pro	Thr	Val	Thr	Ile	Lys	Val	440	445	450
Tyr	Glu	Gly	Glu	Arg	Pro	Leu	Thr	Lys	Asp	Asn	His	Leu	Leu	Gly	455	460	465
Thr	Phe	Asp	Leu	Thr	Gly	Ile	Pro	Pro	Ala	Pro	Arg	Gly	Val	Pro	470	475	480
Gln	Ile	Glu	Val	Thr	Phe	Glu	Ile	Asp	Val	Asn	Gly	Ile	Leu	Arg	485	490	495
Val	Thr	Ala	Glu	Asp	Lys	Gly	Thr	Gly	Asn	Lys	Asn	Lys	Ile	Thr	500	505	510
Ile	Thr	Asn	Asp	Gln	Asn	Arg	Leu	Thr	Pro	Glu	Glu	Ile	Glu	Arg	515	520	525
Met	Val	Asn	Asp	Ala	Glu	Lys	Phe	Ala	Glu	Glu	Asp	Lys	Lys	Leu	530	535	540
Lys	Glu	Arg	Ile	Asp	Thr	Arg	Asn	Glu	Leu	Glu	Ser	Tyr	Ala	Tyr	545	550	555
Ser	Leu	Lys	Asn	Gln	Ile	Gly	Asp	Lys	Glu	Lys	Leu	Gly	Gly	Lys	560	565	570
Leu	Ser	Ser	Glu	Asp	Lys	Glu	Thr	Met	Glu	Lys	Ala	Val	Glu	Glu	575	580	585
Lys	Ile	Glu	Trp	Leu	Glu	Ser	His	Gln	Asp	Ala	Asp	Ile	Glu	Asp	590	595	600
Phe	Lys	Ala	Lys	Lys	Lys	Glu	Leu	Glu	Glu	Ile	Val	Gln	Pro	Ile	605	610	615
Ile	Ser	Lys	Leu	Tyr	Gly	Ser	Ala	Gly	Pro	Pro	Pro	Thr	Gly	Glu	620	625	630
Glu	Asp	Thr	Ala	Glu	Lys	Asp	Glu	Leu							635	640	645
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<210> 261

<211> 674

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 240518.21

<220>

<221> unsure

<222> 37

<223> a, t, c, g, or other

<400> 261

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tcttcgggaa	gggtgagcca	gggtgggact	ggccagccag	gagggcgtgg	ctggtgcagg	180
ggaagaggag	accccggcga	gattcggccg	gaccgctgcg	ccgggcaggg	gaagagaatc	240

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<210> 262

<211> 2015

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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<220>

<221> unsure

<222> 748

<223> a, t, c, g, or other

<400> 262

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<210> 263
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<213> Homo sapiens

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<220>
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<222> 167-332
<223> a, t, c, g, or other

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PA-0035 US

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aagccgggag tttgggacag agttcacaga ccattacatc gaggtggtga aggtgcagc 1260
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<210> 270

<211> 544

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4113161CD1

<400> 270

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Pro His Arg Trp Gly	Pro Cys Gly Gly Ser	Trp Ala Gln Lys Phe			
	35		40		45
Tyr Gln Asp Gly Pro	Gly Arg Gly Leu Gly	Glu Glu Asp Ile Arg			
	50		55		60
Arg Ala Arg Glu Ala	Arg Pro Arg Lys Thr	Pro Arg Pro Gln Leu			
	65		70		75
Ser Asp Arg Ser Arg	Glu Arg Lys Val Pro	Ala Ser Arg Ile Ser			
	80		85		90
Arg Leu Ala Asn Phe	Gly Gly Leu Ala Val	Gly Leu Gly Leu Gly			
	95		100		105
Val Leu Ala Glu Met	Ala Lys Lys Ser Met	Pro Gly Gly Arg Leu			
	110		115		120
Gln Ser Glu Gly Gly	Ser Gly Leu Asp Ser	Ser Pro Phe Leu Ser			
	125		130		135
Glu Ala Asn Ala Glu	Arg Ile Val Gln Thr	Leu Cys Thr Val Arg			
	140		145		150
Gly Ala Ala Leu Lys	Val Gly Gln Met Leu	Ser Ile Gln Asp Asn			
	155		160		165
Ser Phe Ile Ser Pro	Gln Leu Gln His Ile	Phe Glu Arg Val Arg			
	170		175		180
Gln Ser Ala Asp Phe	Met Pro Arg Trp Gln	Met Leu Arg Val Leu			
	185		190		195
Glu Glu Glu Leu Gly	Arg Asp Trp Gln Ala	Lys Val Ala Ser Leu			
	200		205		210
Glu Glu Val Pro Phe	Ala Ala Ala Ser Ile	Gly Gln Val His Gln			
	215		220		225
Gly Leu Leu Arg Asp	Gly Thr Glu Val Ala	Val Lys Ile Gln Tyr			
	230		235		240
Pro Gly Ile Ala Gln	Ser Ile Gln Ser Asp	Val Gln Asn Leu Leu			
	245		250		255
Ala Val Leu Lys Met	Ser Ala Ala Leu Pro	Ala Gly Leu Phe Ala			
	260		265		270
Glu Gln Ser Leu Gln	Ala Leu Gln Gln Glu	Leu Ala Trp Glu Cys			
	275		280		285
Asp Tyr Arg Arg Glu	Ala Ala Cys Ala Gln	Asn Phe Arg Gln Leu			
	290		295		300
Leu Ala Asn Asp Pro	Phe Phe Arg Val Pro	Ala Val Val Lys Glu			
	305		310		315
Leu Cys Thr Thr Arg	Val Leu Gly Met Glu	Leu Ala Gly Gly Val			
	320		325		330
Pro Leu Asp Gln Cys	Gln Gly Leu Ser Gln	Asp Leu Arg Asn Gln			
	335		340		345
Ile Cys Phe Gln Leu	Leu Thr Leu Cys Leu	Arg Glu Leu Phe Glu			
	350		355		360
Phe Arg Phe Met Gln	Thr Asp Pro Asn Trp	Ala Asn Phe Leu Tyr			
	365		370		375
Asp Ala Ser Ser His	Gln Val Thr Leu Leu	Asp Phe Gly Ala Ser			
	380		385		390
Arg Glu Phe Gly Thr	Glu Phe Thr Asp His	Tyr Ile Glu Val Val			
	395		400		405
Lys Ala Ala Ala Asp	Gly Asp Arg Asp Cys	Val Leu Gln Lys Ser			
	410		415		420
Arg Asp Leu Lys Phe	Leu Thr Gly Phe Glu	Thr Lys Ala Phe Ser			
	425		430		435
Asp Ala His Val Glu	Ala Val Met Ile Leu	Gly Glu Pro Phe Ala			

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Thr Gln Gly Pro	440	Thr Gln Gly Ser	445	Gly Glu Thr Ala Arg Arg	450
Ile Gln Asp Leu	455	Ile Pro Val Leu Leu	460	Arg His Arg Leu Cys Pro	465
Pro Pro Glu Glu	470	Thr Tyr Ala Leu His	475	Arg Lys Leu Ala Gly Ala	480
Phe Leu Ala Cys	485	Ala His Leu Arg Ala	490	His Ile Ala Cys Arg Asp	495
Leu Phe Gln Asp	500	Thr Tyr His Arg Tyr	505	Trp Ala Ser Arg Gln Pro	510
Asp Ala Ala Thr	515	Ala Gly Ser Leu Pro	520	Thr Lys Gly Asp Ser Trp	525
Val Asp Pro Ser	530		535		540

<210> 271
<211> 442
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2757583CB1

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gctcctgcgc cgctgggtgc tcttgccact gcgtggttc ctgcaagtgc aaagagtgc 180
aatgcacctc ctgcaagaag agctgctgct cctgctgccc cgtgggctgt agcaagtgtg 240
cccagggctg tgtttgcaaa ggggcgtcag agaagtgcag ctgctgctgac tgatgccagg 300
acaacctttc tcccagatgt aaacagagag acatgtacaa acctggattt tttttttata 360
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ctttagacct gaaaaaaaaa aa 442

<210> 272
<211> 61
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2757583CD1

<400> 272
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Ala Gly Ser Cys Lys Cys Lys Glu Cys Lys Cys Thr Ser Cys Lys
20 25 30
Lys Ser Cys Cys Ser Cys Cys Pro Val Gly Cys Ser Lys Cys Ala
35 40 45
Gln Gly Cys Val Cys Lys Gly Ala Ser Glu Lys Cys Ser Cys Cys
50 55 60
Asp

<210> 273
<211> 1077

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<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 198317.1

<220>

<221> unsure

<222> 935, 943, 945, 947, 951

<223> a, t, c, g, or other

<400> 273

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attagaaaaat cctgggaagg gctctttagg gtccctcacc cccaccccc ttggatcttt 180
ggtgcaacaa atactactga tgaaagcacc agtgtttggtg acaaacatct ccttatccca 240
agaaaatcgt gcctggttgc aggggacgct tgacagcact tggccccgtg acagccccctc 300
tccggggccag gtccctgccca cagtcttcgg acatcactgc agtgtcttca acgtggcttt 360
ggcgcggccc tcgtccggcc cacgctgac actgcaaatt caccaccacc cacctcacgc 420
agattttcaat gtaatgaacc aacacaggat gttttaaact attagggaaa cattgtttcc 480
ataatattct caccagaaac agatgtggaa gtggcagccc gtgtttacag tttctcattt 540
tttttgctcc cctttaaatt accattatgg gtaaatcatt gtttcccttt aaaacaaaaa 600
acaaatcagt acccctgcct acagaaaaga agaggggaaca tttattttaa ggatggaaaag 660
actgggagtt aggcactccc agcctcactg aggggcattt ttgcctttga gaagtcctcc 720
caggtatcct ggtatagcac aatgtggcaa tccgtagtgg gaatgaagat taaacaggag 780
agactttgta ttagacctgt gagacgagtt aggaagccct gcctggcatg gggaatgcaa 840
acagggaaca ttcaataaat cggggaactt gcttttctcc ccaagacccc agatggggcc 900
taccatcgt tctcgtgtaa caaacgtgtg aaaaanaaaa aangnanaag nagaacaaaa 960
acaaaaaaac taagttgacc agtctgtttt cactgggatg agagcattaa ccgcactaga 1020
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<210> 274

<211> 3282

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1508254CB1

<220>

<221> unsure

<222> 3130

<223> a, t, c, g, or other

<400> 274

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gcggcaggat gattgcctcg catctgcttg cctacttctt cacggagctc aacctgacc 180
aagtgcagaa ggttgaccag tatctctacc acatgcgcct ctctgatgag accctcttgg 240
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ctgcagcagt gaagatgctg cccacctttg tgagggtccac tccagatggg acagaacacg 360
gagagtctct ggctctggat cttggaggga ccaacttccg tgtgctttgg gtgaaagtaa 420
cggacaatgg gctccagaag gtggagatgg agaatcagat ctatgccatc cctgaggaca 480
tcatgcgagg cagtggcacc cagctgtttg accacattgc cgaatgcctg gctaacttca 540
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tggataagct acaaatcaaa gacaagaagc tcccactggg ttttaccttc tcgttcccct 600
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 actttgatat cgacattgtg gctgtgggtga atgacacagt tgggaccatg atgacctgtg 780
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<210> 275

<211> 917

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1508254CD1

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<400> 275

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				20					25					30	
Leu	Ser	Asp	Glu	Thr	Leu	Leu	Glu	Ile	Ser	Lys	Arg	Phe	Arg	Lys	
				35					40					45	
Glu	Met	Glu	Lys	Gly	Leu	Gly	Ala	Thr	Thr	His	Pro	Thr	Ala	Ala	
				50					55					60	
Val	Lys	Met	Leu	Pro	Thr	Phe	Val	Arg	Ser	Thr	Pro	Asp	Gly	Thr	
				65					70					75	
Glu	His	Gly	Glu	Phe	Leu	Ala	Leu	Asp	Leu	Gly	Gly	Thr	Asn	Phe	
				80					85					90	
Arg	Val	Leu	Trp	Val	Lys	Val	Thr	Asp	Asn	Gly	Leu	Gln	Lys	Val	
				95					100					105	
Glu	Met	Glu	Asn	Gln	Ile	Tyr	Ala	Ile	Pro	Glu	Asp	Ile	Met	Arg	
				110					115					120	
Gly	Ser	Gly	Thr	Gln	Leu	Phe	Asp	His	Ile	Ala	Glu	Cys	Leu	Ala	
				125					130					135	
Asn	Phe	Met	Asp	Lys	Leu	Gln	Ile	Lys	Asp	Lys	Lys	Leu	Pro	Leu	
				140					145					150	
Gly	Phe	Thr	Phe	Ser	Phe	Pro	Cys	His	Gln	Thr	Lys	Leu	Asp	Glu	
				155					160					165	
Ser	Phe	Leu	Val	Ser	Trp	Thr	Lys	Gly	Phe	Lys	Ser	Ser	Gly	Val	
				170					175					180	
Glu	Gly	Arg	Asp	Val	Val	Ala	Leu	Ile	Arg	Lys	Ala	Ile	Gln	Arg	
				185					190					195	
Arg	Gly	Asp	Phe	Asp	Ile	Asp	Ile	Val	Ala	Val	Val	Asn	Asp	Thr	
				200					205					210	
Val	Gly	Thr	Met	Met	Thr	Cys	Gly	Tyr	Asp	Asp	His	Asn	Cys	Glu	
				215					220					225	
Ile	Gly	Leu	Ile	Val	Gly	Thr	Gly	Ser	Asn	Ala	Cys	Tyr	Met	Glu	
				230					235					240	
Glu	Met	Arg	His	Ile	Asp	Met	Val	Glu	Gly	Asp	Glu	Gly	Arg	Met	
				245					250					255	
Cys	Ile	Asn	Met	Glu	Trp	Gly	Ala	Phe	Gly	Asp	Asp	Gly	Ser	Leu	
				260					265					270	
Asn	Asp	Ile	Arg	Thr	Glu	Phe	Asp	Gln	Glu	Ile	Asp	Met	Gly	Ser	
				275					280					285	
Leu	Asn	Pro	Gly	Lys	Gln	Leu	Phe	Glu	Lys	Met	Ile	Ser	Gly	Met	
				290					295					300	
Tyr	Met	Gly	Glu	Leu	Val	Arg	Leu	Ile	Leu	Val	Lys	Met	Ala	Lys	
				305					310					315	
Glu	Glu	Leu	Leu	Phe	Gly	Gly	Lys	Leu	Ser	Pro	Glu	Leu	Leu	Asn	
				320					325					330	
Thr	Gly	Arg	Phe	Glu	Thr	Lys	Asp	Ile	Ser	Asp	Ile	Glu	Gly	Glu	
				335					340					345	
Lys	Asp	Gly	Ile	Arg	Lys	Ala	Arg	Glu	Val	Leu	Met	Arg	Leu	Gly	
				350					355					360	
Leu	Asp	Pro	Thr	Gln	Glu	Asp	Cys	Val	Ala	Thr	His	Arg	Ile	Cys	
				365					370					375	
Gln	Ile	Val	Ser	Thr	Arg	Ser	Ala	Ser	Leu	Cys	Ala	Ala	Thr	Leu	
				380					385					390	
Ala	Ala	Val	Leu	Gln	Arg	Ile	Lys	Glu	Asn	Lys	Gly	Glu	Glu	Arg	
				395					400					405	
Leu	Arg	Ser	Thr	Ile	Gly	Val	Asp	Gly	Ser	Val	Tyr	Lys	Lys	His	

Pro His Phe Ala	410	415	420
Lys Arg Leu His Lys Thr Val Arg Arg Leu Val			
425	430	435	
Pro Gly Cys Asp Val Arg Phe Leu Arg Ser Glu Asp Gly Ser Gly			
440	445	450	
Lys Gly Ala Ala Met Val Thr Ala Val Ala Tyr Arg Leu Ala Asp			
455	460	465	
Gln His Arg Ala Arg Gln Lys Thr Leu Glu His Leu Gln Leu Ser			
470	475	480	
His Asp Gln Leu Leu Glu Val Lys Arg Arg Met Lys Val Glu Met			
485	490	495	
Glu Arg Gly Leu Ser Lys Glu Thr His Ala Ser Ala Pro Val Lys			
500	505	510	
Met Leu Pro Thr Tyr Val Cys Ala Thr Pro Asp Gly Thr Glu Lys			
515	520	525	
Gly Asp Phe Leu Ala Leu Asp Leu Gly Gly Thr Asn Phe Arg Val			
530	535	540	
Leu Leu Val Arg Val Arg Asn Gly Lys Trp Gly Gly Val Glu Met			
545	550	555	
His Asn Lys Ile Tyr Ala Ile Pro Gln Glu Val Met His Gly Thr			
560	565	570	
Gly Asp Glu Leu Phe Asp His Ile Val Gln Cys Ile Ala Asp Phe			
575	580	585	
Leu Glu Tyr Met Gly Met Lys Gly Val Ser Leu Pro Leu Gly Phe			
590	595	600	
Thr Phe Ser Phe Pro Cys Gln Gln Asn Ser Leu Asp Glu Ser Ile			
605	610	615	
Leu Leu Lys Trp Thr Lys Gly Phe Lys Ala Ser Gly Cys Glu Gly			
620	625	630	
Glu Asp Val Val Thr Leu Leu Lys Glu Ala Ile His Arg Arg Glu			
635	640	645	
Glu Phe Asp Leu Asp Val Val Ala Val Val Asn Asp Thr Val Gly			
650	655	660	
Thr Met Met Thr Cys Gly Phe Glu Asp Pro His Cys Glu Val Gly			
665	670	675	
Leu Ile Val Gly Thr Gly Ser Asn Ala Cys Tyr Met Glu Glu Met			
680	685	690	
Arg Asn Val Glu Leu Val Glu Gly Glu Glu Gly Arg Met Cys Val			
695	700	705	
Asn Met Glu Trp Gly Ala Phe Gly Asp Asn Gly Cys Leu Asp Asp			
710	715	720	
Phe Arg Thr Glu Phe Asp Val Ala Val Asp Glu Leu Ser Leu Asn			
725	730	735	
Pro Gly Lys Gln Arg Phe Glu Lys Met Ile Ser Gly Met Tyr Leu			
740	745	750	
Gly Glu Ile Val Arg Asn Ile Leu Ile Asp Phe Thr Lys Arg Gly			
755	760	765	
Leu Leu Phe Arg Gly Arg Ile Ser Glu Arg Leu Lys Thr Arg Gly			
770	775	780	
Ile Phe Glu Thr Lys Phe Leu Ser Gln Ile Glu Ser Asp Cys Leu			
785	790	795	
Ala Leu Leu Gln Val Arg Ala Ile Leu Gln His Leu Gly Leu Glu			
800	805	810	
Ser Thr Cys Asp Asp Ser Ile Ile Val Lys Glu Val Cys Thr Val			
815	820	825	
Val Ala Arg Arg Ala Ala Gln Leu Cys Gly Ala Gly Met Ala Ala			

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	830		835		840
Val Val Asp Arg	Ile Arg Glu Asn Arg	Gly Leu Asp Ala Leu	Lys		
	845		850		855
Val Thr Val Gly	Val Asp Gly Thr Leu	Tyr Lys Leu His Pro	His		
	860		865		870
Phe Ala Lys Val	Met His Glu Thr Val	Lys Asp Leu Ala Pro	Lys		
	875		880		885
Cys Asp Val Ser	Phe Leu Gln Ser Glu	Asp Gly Ser Gly Lys	Gly		
	890		895		900
Ala Ala Leu Ile	Thr Ala Val Ala Cys	Arg Ile Arg Glu Ala	Gly		
	905		910		915

Gln Arg

<210> 276
<211> 4350
<212> DNA
<213> Homo sapiens

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PA-0035 US

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PA-0035 US

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PA-0035 US

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PA-0035 US

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ctcaggtgtt tgagccacac cagaagaaac aaacgcgagc ttcagtggtg attccagtga 960
ctggggatag tgaagggtgct acgggtgcagg taaagtccag tgagctgctc tggggaggga 1020
agggacatag aagactgttc catcattcat tgcttttaag gatgagttct ctcttgtaa 1080
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cagnataaga agggaagttt tggtggaagt aggagtctg gtgagatttt gctctgatgc 1980
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atcaagaaga cttccttttc taccaccaca ctactgccc ccattaaggt tcttggtggt 2280
taccatctg aaatatgntt ccatcacacn atttgttact tccattgaat ttcttca 2337
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<210> 295

<211> 377

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 030882CB1

<400> 295

PA-0035 US

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tcgccatgag aacttcctac cttctgctgt ttactctctg cttacttttg tctgagatgg 120
cctcagggtgg taactttctc acaggccttg gccacagatc tgatcattac aattgcgtca 180
gcagtggagg gcaatgtctc tattctgcct gcccgatctt taccaaaatt caaggcacct 240
gttacagagg gaaggccaag tgctgcaagt gagctgagag tgaccagaag aaatgacgca 300
gaagtgaaat gaacttttta taagcattct tttaataaag gaaaattgct tttgaagtat 360
aaaagaaaaa aaaaagg 377
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<210> 296

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 030882CD1

<400> 296

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Met Arg Thr Ser Tyr Leu Leu Leu Phe Thr Leu Cys Leu Leu Leu
  1          5          10          15
Ser Glu Met Ala Ser Gly Gly Asn Phe Leu Thr Gly Leu Gly His
          20          25          30
Arg Ser Asp His Tyr Asn Cys Val Ser Ser Gly Gly Gln Cys Leu
          35          40          45
Tyr Ser Ala Cys Pro Ile Phe Thr Lys Ile Gln Gly Thr Cys Tyr
          50          55          60
Arg Gly Lys Ala Lys Cys Cys Lys
          65
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<210> 297

<211> 1115

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 898779CB1

<400> 297

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gcctggggcga cagagcaaga cttcatctca aaaaaaaaaa aaaagggcgg cgctcctcgc 180
cagcagccgt ccggagccag ccaacgagcg gaaaatggca gacaattttt cgctccatga 240
tgcgttatct gggctctggaa acccaaacc tcaaggatgg cctggcgcac gggggaacca 300
gcctgctggg gcagggggct acccaggggc ttctatcct ggggcctacc ccgggcaggc 360
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ttatcccga gaacctgcac ctggagtcta cccagggcca cccagcggcc ctggggccta 480
ccatcttct ggacagccaa gtgcccccg agcctaccct gccactggcc cctatggcgc 540
cctgctggg cactgattg tgccttataa cctgcctttg cctgggggag tggcgctcg 600
catgctgata acaattctgg gcacggtgaa gcccaatgca aacagaattg ctttagattt 660
ccaaagaggg aatgatgtt ccttccact taaccacgc ttcaatgaga acaacaggag 720
agtcattgtt tgcaatacaa agctggataa taactgggga aggaagaaa gacagtcggg 780
tttcccatth gaaagtggga aaccattcaa aatacaagta ctggttgaa ctgaccactt 840
caaggttgca gtgaatgat ctcaattgtt gcagtacaat catcgggtta aaaaactcaa 900
tgaaatcagc aaactgggaa tttctgggtga catagacctc accagtgcct catataccat 960
gatataatct gaaaggggca gattaaaaaa aaaaaaagaa tctaaacctt acatgtgtaa 1020
aggtttcatg ttcactgtga gtgaaaattt ttacattcat caatatccct cttgtaagtc 1080
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PA-0035 US

atctacttaa taaatattac agtgaaaaaa aaaaa

1115

<210> 298

<211> 250

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 898779CD1

<400> 298

Met	Ala	Asp	Asn	Phe	Ser	Leu	His	Asp	Ala	Leu	Ser	Gly	Ser	Gly	
1				5					10					15	
Asn	Pro	Asn	Pro	Gln	Gly	Trp	Pro	Gly	Ala	Trp	Gly	Asn	Gln	Pro	
				20					25					30	
Ala	Gly	Ala	Gly	Gly	Tyr	Pro	Gly	Ala	Ser	Tyr	Pro	Gly	Ala	Tyr	
				35					40					45	
Pro	Gly	Gln	Ala	Pro	Pro	Gly	Ala	Tyr	Pro	Gly	Gln	Ala	Pro	Pro	
				50					55					60	
Gly	Ala	Tyr	His	Gly	Ala	Pro	Gly	Ala	Tyr	Pro	Gly	Ala	Pro	Ala	
				65					70					75	
Pro	Gly	Val	Tyr	Pro	Gly	Pro	Pro	Ser	Gly	Pro	Gly	Ala	Tyr	Pro	
				80					85					90	
Ser	Ser	Gly	Gln	Pro	Ser	Ala	Pro	Gly	Ala	Tyr	Pro	Ala	Thr	Gly	
				95					100					105	
Pro	Tyr	Gly	Ala	Pro	Ala	Gly	Pro	Leu	Ile	Val	Pro	Tyr	Asn	Leu	
				110					115					120	
Pro	Leu	Pro	Gly	Gly	Val	Val	Pro	Arg	Met	Leu	Ile	Thr	Ile	Leu	
				125					130					135	
Gly	Thr	Val	Lys	Pro	Asn	Ala	Asn	Arg	Ile	Ala	Leu	Asp	Phe	Gln	
				140					145					150	
Arg	Gly	Asn	Asp	Val	Ala	Phe	His	Phe	Asn	Pro	Arg	Phe	Asn	Glu	
				155					160					165	
Asn	Asn	Arg	Arg	Val	Ile	Val	Cys	Asn	Thr	Lys	Leu	Asp	Asn	Asn	
				170					175					180	
Trp	Gly	Arg	Glu	Glu	Arg	Gln	Ser	Val	Phe	Pro	Phe	Glu	Ser	Gly	
				185					190					195	
Lys	Pro	Phe	Lys	Ile	Gln	Val	Leu	Val	Glu	Pro	Asp	His	Phe	Lys	
				200					205					210	
Val	Ala	Val	Asn	Asp	Ala	His	Leu	Leu	Gln	Tyr	Asn	His	Arg	Val	
				215					220					225	
Lys	Lys	Leu	Asn	Glu	Ile	Ser	Lys	Leu	Gly	Ile	Ser	Gly	Asp	Ile	
				230					235					240	
Asp	Leu	Thr	Ser	Ala	Ser	Tyr	Thr	Met	Ile						
				245					250						

<210> 299

<211> 529

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3727408CB1

<400> 299

PA-0035 US

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gatcatccaa agagaagaaa ggtgacctca cattcgtgcc ccttagcagc actctgcaga 120
aatgcctcct cagctgcaaa acggcctgaa cctctcggcc aaagtgtgcc agggaagcct 180
ggacagccta cccagcgagc tgagggagtt tctcgagaat aacgctgagc tgtgtcagcc 240
tgatcacatc cacatctgtg acggctctga ggaggagaat gggcggcttc tgggccagat 300
ggaggaagag ggcacacctca ggcggctgaa gaagtatgac aactgctggt tggctctcac 360
tgaccccagg gatgtggcca ggatcgaaaag caagacgggt atcgtcaccc aagagcaaag 420
agacacagtg gcccttcccc agaacaggcc ttagccagct tcgttcgttg gatttcaaag 480
gaggattttt agaagcgtcc aatgccaggt tccaggatgc attaaagtc 529
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<210> 300

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3727408CD1

<400> 300

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Val Gln Gly Ser Leu Asp Ser Leu Pro Gln Ala Val Arg Glu Phe
          20          25          30
Leu Glu Asn Asn Ala Glu Leu Cys Gln Pro Asp His Ile His Ile
          35          40          45
Cys Asp Gly Ser Glu Glu Glu Asn Gly Arg Leu Leu Gly Gln Met
          50          55          60
Glu Glu Glu Gly Ile Leu Arg Arg Leu Lys Lys Tyr Asp Asn Cys
          65          70          75
Trp Leu Ala Leu Thr Asp Pro Arg Asp Val Ala Arg Ile Glu Ser
          80          85          90
Lys Thr Val Ile Val Thr Gln Glu Gln Arg Asp Thr Val Ala Leu
          95          100          105
Pro Gln Asn Arg Pro
          110
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<210> 301

<211> 903

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 984236.1c

<400> 301

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atgaggcttg gtgccaggct cgaggtctga attgggcagc attgtgcca gcccataaac 120
ttcggggaga actcctagaa ctcacgcaac gaattgaact tcccttgtec ctaccagcct 180
ttggctctga gcagaatcgc agagaccttc agaaagcact ggtgtcagga tactttctca 240
aggtggccag agacacagac gggactggaa attaccttct cctaaccat aagcatgtgg 300
cccagctctc ctcatactgc tgctaccgaa gccgcagagc tcctgccaga ccccacccat 360
gggtgctcta ccacaatttc accatatcca aagacaactg cctttccatt gtttctgaga 420
ttcaaccaca gatgtgggtg gaattggccc ctccatactt cctgagtaac ttgcctccca 480
gtgagagcag agaccttctg aaccagctaa gggaagggaat ggcagattct acagcaggga 540
gcaaatcatc ctcagcccag gagttcagag atccctgtgt cctgcagtga cctgcctgcc 600
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PA-0035 US

tatggaatgg agctgggttc atctcatcac attagattat ccctcagggg gacaccaaag 660
caccagaca gatttagaag cccaaagttt aggggtcaa gtaaaccctg gaacctgagt 720
cccaagaaat ggtagactgg gaatggaaa aatggggtaa accacagtct acatagggaa 780
ggactctttc cttagccttc tcttattgat tggagaggga ctgacatgct cctcattctc 840
ttaactttgc caaacccatt cttgtactcc cttgtgatct ataaaagatt tttctatgat 900
gcc 903

<210> 302

<211> 581

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 984236.2c

<220>

<221> unsure

<222> 422

<223> a, t, c, g, or other

<400> 302

cccctggttc tgcaatctgt ctcccttttta gtagtaacac cagggagctc agattctcct 60
cacacacctt gggttgtggc aatgggtggag cttctagttc taagaaggac ttaggataca 120
ggcagaggca ggatcctgag gggaaaaaaga cctgggaaag aagaccactg tagatttctc 180
agggcttgca tgttggtgac tcttgggttt tttatttcag tgagggcaaa ggctcttacc 240
tgggtgggaac cctcttgctc gcaatcgtct tgccctctgc tgacacttgc tgattggcct 300
caacacttgg aattctgctc ggatcctagg attgtaaacc tgttgccctg cccccaacca 360
aggccaagac agatcagagt gggccatttc tgtctttact accccaaccg tatctctctc 420
tntcactcac acttcggagc tccagtcctg agtcgatgac atgttggatg gaagggaggg 480
agaaggagaa gtcagccagc cagtgaagtga ccacaacctt tcgggcatcc atgtcctcat 540
acacagcctg aacggctcgt ccacagtcct ggtgaagggg c 581

<210> 303

<211> 881

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 348082.5

<400> 303

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agaaaaacgc acaaagcaat tttcagatgc cagtcaattg gatttcgtta aaacacgaaa 180
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gaaagcaggt tctcccagca gagatgtggg tccttccctg ggtctgaaga agtcaagctc 300
gttgagagat ctgcagaccg cagttgccga ggtgactttg aatgggggata ttcctttcca 360
tcgtccacgg ccgcgataa tcagaggcag gggatgcaat gagagcttca gagctgccat 420
cgacaaatct tatgataaac ccgcggtaga tgatgatgat gaaggcatgg agaccttggg 480
agaagacaca gaagaaagt caagatcagg gagagagtct gtatccacag ccagtgatca 540
gccttcccac tctctggaga gacaaatgaa tggaaaccaa gagaaagggtg ataagactga 600
tagaaaaaag gataaaactg gaaaagaaaa gaagaaagat agagataagg agaaggataa 660
aatgaaagcc aagaagggaa tgctgaaggg cttgggagac atgttcagga ttcaagccaa 720
aactcgagaa tttaggggaa gacaagctcg agagcgtgac tatgctgaaa ttcaagattt 780

PA-0035 US

tcacgcggaca tttggctgtg atgatgagtt aatgtatggg ggagtttctt cttatgaagg 840
ttccatggct ctcaacgcta gacctcagag cccacgagaa g 881

<210> 304
<211> 1380
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 348082.7

<400> 304
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aaagctcgta gaagtcacca acgatggagg gcctctggga atccatgtag tgcctttcag 180
tgctcgaggc ggcagaaccc tggggttatt agtaaaacga ttggagaaag gtggtaaaag 240
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tcgaaataga agatttgaac aagcacaaca tatgtttcgc caagccatgc gtacacccat 360
catttggttc catgtgggtc ctgcagcaaa taaagagcag tatgaacaac tatcccaaag 420
tgagaagaac aattactatt caagccgttt tagccctgac agccagtata ttgacaacag 480
gagtgtgaac agtgcagggc ttcacacggg gcagagagca ccccgactga accaccgcc 540
tgagcagata gactctcact caagactacc tcatagcgca caccctcgg gaaaaccacc 600
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caccaaaaaa ataggcaaga ggcttaatat ccagcttaag aaaggtagag aagggttggg 720
attcagcatc acttcagag atgtaacaat aggtggctca gctccaatct atgtgaaaaa 780
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agaggtaaag ggagtagatt tagtgggcaa atcccaagag gaagttgttt cgctgttgag 900
aagcaccaag atggaaggaa ctgtgagcct tctgggtctt cgccagggaag acgccttcca 960
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agatggaagg cttcgggtga atgatcaact gatagcagta aatggagaat cctgttggg 1260
caagacaaac caagatgcc a tggaaaccct aagaagggtc atgtctactg aaggcaataa 1320
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<210> 305
<211> 1091
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1097910.1

<400> 305
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ctttgagaag ggcacatcc gggacatcac agacagcctg attgagcact gtcaggagaa 180
gcagctggat gagaacgcca atgtccagct gtcagatgag aagatcatta acatcgtctt 240
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cctggagacc ttccgacact cttccttctg ccccttcacc atccccaca gcacaacaag 480
agacacaagt ttgaaaggct tttacatccc caaggggctg tgtgtctttg taaaccagt 540

PA-0035 US

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gcagatcaac catgaccaga agctatgggt caacccatct gagttcctac ctgaacgggt 600
tctcaccct gatgggtgcta tcgacaaggt gttaagttag aaggtgatta tctttggcat 660
gggcaagcgg aagtgtatcg gtgagaccgt tgcccgtctg gaggtctttc tcttcctggc 720
tattcctgctg caacgggtgg aattcagcgt gccactgggc gtgaagggtg acatgacccc 780
catctatggg ctaaccatga agcatgcctg ctgtgagcac ttccaaatgc agctgcgctc 840
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ctgcagtttt gctatctggg ctgtgggcaa gcctaaggga tccctgcctgc ccctaccctg 1020
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<210> 306

<211> 3189

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 246841.1

<400> 306

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tcattaggat cctcacagat tatttttggg tggggaggttg aaacttttta aaggcatata 180
attctagtta cctgtgtctg tttagctttg gcatttattt tttattttatc cttcttttgg 240
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ctaaaaaaag tttttgggta gggattttgg ttttggtttt gtgtttgttt tttctttcct 420
ctctcagaaa aaaaaatttc atgctttaaa taaaatccaa agacacacccc tttcactgct 480
gatgcagaaa aaaggggaaag ggttcttgtt acttgagaat ttgtttctga tttaaacaaa 540
caagacttag ttttaataaaa gaaagagaaa aacaaaagat tcccagggtg ttatgtgctt 600
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gaatagattg gctgagcaca ctccaccca cctagtgttc tcagaggggt tatgtgattg 1980
tttcaacctg gagtgggttg cacccttaat gctttcctct gcaactaaac cgccacata 2040
tatgttcatt gaaaaaagta agaataattc tcagcactaa cccagaagta gcaaaagcagt 2100
```

```

cagtgatggt gaacattaga ggtcaaacat gagttagatg tttgtgggct gacagccatc 2160
gtggctatga ccagtactat ttacaaagca tgaattcact acaatgctca actgtttgtt 2220
tagctttatc tcacttgggg aatttattcc tgtctgctgc attgtaggta gctgggtagg 2280
atatatttcc acttgccttt taaattagtt cttcacctcc attgacactc gttttttggt 2340
tttctcccta tagtgtgggt tgggtgctaga caccagtctg acccacagaa tgggagttat 2400
ttcatccatc tttcctccat ctttccaaaa accacatatc tacacaagga aaaatttaat 2460
acatctagga attttttttt taattacaag ctattttaaag agatgaatgt ggccaaagt 2520
ttacacaatt gaaaataaag taaaacagac ggcattgtgt taaacctgag tttatcaggc 2580
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gacatatatt ttttttaa ataaatttaa aacattttta atagaagcat aaattgagtt 2700
gtttgttggc gctgagatac tgcccactgt gaaacaaagc tttgactagt tttttgtttg 2760
tttactttct tcagggggga ggggggcaag tttgggtagg aaagaaagca taaatgaacg 2820
tgacctgag gtgaagaggt atatgaacag cctttgcaat gtacaaaaag aaaaaaaaac 2880
aaaaacaac aaaaaaata gagcaagtga aacaaaaaat gatgttcttg gtgtttttct 2940
ataatgtagt cttgttagct tttttgttac tgtaacaatg ctgatctcga actgtaccaa 3000
aatacatgga gactaacaaa cagaaccaca tggaaacttt aaactgaaaa aaaaatttgt 3060
cacaaaaact ttgttgtcat agttaagttg attgtagatg gtaattgaat atactccttt 3120
gaaaatattt catcaagtat gtttctctgt cattgtgata cattaataaa aaaatatgag 3180
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<210> 307

<211> 757

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 351241.1

<400> 307

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gctttcctgt attacattac ctcacctctt tggcttttgt gagtagcaga gattaccttg 180
tactgtgaga ggattttacc ttgatgtgtg tactggcgga tgagagctac aaagttaaag 240
ctgactgagg acagttttaca ggaagcagtc ttcactgttt tgttttttcc acctaggaag 300
ttgttttagg tcctaattct aattcagagg tgcattctac agagtcttct ccattgcctt 360
tcctctcaaa attaatcttg attggcttct ctgggcattt gcgtgaggaa ctgaaactca 420
ttttcataga taaatgagag aatgagtttc ctcagctccc taaagggcat tttgcttctc 480
ccagctgaaa ggctcccctg gattactagg ggctaagtgg gagtgcttag tgggttgacc 540
cccagcaacg tgcagcagcc ctacagggaa tccccaacaa aattagtttt aaaaggcttg 600
tccaagaaat gaatatagga gctggtcatt ccatgctttg agccctcctg gaggtgctag 660
acctctggag acaaaaatga ctcagtggat aacacgctat ggagtctctg caataaccca 720
gcacacttca acccatccca ctaaacctta ggccttt

```

757

<210> 308

<211> 1079

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2790762CB1

<400> 308

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ccggcatgaa gacagactcg cttagtcgcc agtcacttaa gctgagtgc tttgtgatttc 60
caataattga ggcagtgggt ctaaaagctg tctacattaa tgaaaagagc aatgtggcca 120

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```
gcttgactaa gccgccagcg cacagcgcgg caggacgcgc ccgggtctca gcggacttgt 180
gcatgttagc tgtgtagatt tatgtgaggg cttgtaaaac tctggctctg taaactagtc 240
ttaagcgctt ttaatatgga gacagatgag agccctcttc cgctcccgtg tgggcccgca 300
ggagaagcgg tgatggagag ccgagctcgc cccttccaag cgctgccccg tgagcagtct 360
ccaccacctc ccctgcaaac gtccagtggg gcagaggtaa tggacgttgg ctctggtggg 420
gatggacagt ccgaactccc tgctgaggac cccttcaact tctacggagc ttctcttctc 480
tccaaaggat ccttctctaa gggccgcctc ctcatagacc cgaactgtag tggccacagc 540
ccgcgcaccg cccggcacgc acctgcggtc cggaagttct cccctgacct taagttgctt 600
aaggatgtaa agattagcgt gagctttacc gagagctgca ggagtaagga caggaagggtg 660
ctgtacacag gacgagagcg cgacgtgcgg gcggagtgcg gtctgtctct tagccctgtc 720
agtggggacg tgcattgctt tccctttggc gggagtgttg gtgacggggg aggcataagg 780
ggtgagagtg ctgataagaa ggatgaggag aatgagctgg atcaggaaaa gagagtggag 840
tatgcagtgc tcgatgagtt agaagatttt actgacaatt tggagctaga tgaagaagga 900
gcaggcgggt tcacggctaa agcaatcggt cagagagaca gaggggatga agaggccttg 960
aatttcccct acgaggtatg ttggcagccc ctctcttaga gggctcttag caaaacccaa 1020
agagagattt gggaattgca gcattctttg aaagcaggga aattaaaaaa aaaaaaaa 1079
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<210> 309

<211> 247

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2790762CD1

<400> 309

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Gly Glu Ala Val Met Glu Ser Arg Ala Arg Pro Phe Gln Ala Leu
          20          25          30
Pro Arg Glu Gln Ser Pro Pro Pro Pro Leu Gln Thr Ser Ser Gly
          35          40          45
Ala Glu Val Met Asp Val Gly Ser Gly Gly Asp Gly Gln Ser Glu
          50          55          60
Leu Pro Ala Glu Asp Pro Phe Asn Phe Tyr Gly Ala Ser Leu Leu
          65          70          75
Ser Lys Gly Ser Phe Ser Lys Gly Arg Leu Leu Ile Asp Pro Asn
          80          85          90
Cys Ser Gly His Ser Pro Arg Thr Ala Arg His Ala Pro Ala Val
          95          100          105
Arg Lys Phe Ser Pro Asp Leu Lys Leu Leu Lys Asp Val Lys Ile
          110          115          120
Ser Val Ser Phe Thr Glu Ser Cys Arg Ser Lys Asp Arg Lys Val
          125          130          135
Leu Tyr Thr Gly Ala Glu Arg Asp Val Arg Ala Glu Cys Gly Leu
          140          145          150
Leu Leu Ser Pro Val Ser Gly Asp Val His Ala Cys Pro Phe Gly
          155          160          165
Gly Ser Val Gly Asp Gly Val Gly Ile Gly Gly Glu Ser Ala Asp
          170          175          180
Lys Lys Asp Glu Glu Asn Glu Leu Asp Gln Glu Lys Arg Val Glu
          185          190          195
Tyr Ala Val Leu Asp Glu Leu Glu Asp Phe Thr Asp Asn Leu Glu
          200          205          210
Leu Asp Glu Glu Gly Ala Gly Gly Phe Thr Ala Lys Ala Ile Val
```

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215 220 225
Gln Arg Asp Arg Val Asp Glu Glu Ala Leu Asn Phe Pro Tyr Glu
230 235 240
Val Cys Trp Gln Pro Leu Leu
245

<210> 310

<211> 713

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2253717CB1

<400> 310

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gctgctgctg ctgctcagtg cggcggtgtg ccgggctgag gctgggctcg aaaccgaaag 180
tcccgctccg accctccaag tggagaccct ggtggagccc ccagaaccat gtgccgagcc 240
cgctgctttt ggagacacgc ttcacataca ctacacggga agcttggtag atggacgtat 300
tattgacacc tccctgacca gagaccctct gggttatagaa cttggccaaa agcagggtgat 360
tccaggctctg gagcagagtc ttctcgacat gtgtgtggga gagaagcgaa gggcaatcat 420
tccttctcac ttggcctatg gaaaacgggg atttccacca tctgtcccag cggatgcagt 480
ggtgcagtat gacgtggagc tgattgcaat aatccgagcc aactactggc taaagctggt 540
gaagggcatt ttgcctctgg tagggatggc catggtgcca gccctcctgg gcctcattgg 600
gtatcaccta tacagaaagg ccaatagacc caaagtctcc aaaaagaagc tcaaggaaga 660
gaaacgaaac aagagcaaaa agaaataata aataataaat tttaaaaaaa aaa 713

<210> 311

<211> 201

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2253717CD1

<400> 311

Met Thr Leu Arg Pro Ser Leu Leu Pro Leu His Leu Leu Leu Leu
1 5 10 15
Leu Leu Leu Ser Ala Ala Val Cys Arg Ala Glu Ala Gly Leu Glu
20 25 30
Thr Glu Ser Pro Val Arg Thr Leu Gln Val Glu Thr Leu Val Glu
35 40 45
Pro Pro Glu Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp Thr Leu
50 55 60
His Ile His Tyr Thr Gly Ser Leu Val Asp Gly Arg Ile Ile Asp
65 70 75
Thr Ser Leu Thr Arg Asp Pro Leu Val Ile Glu Leu Gly Gln Lys
80 85 90
Gln Val Ile Pro Gly Leu Glu Gln Ser Leu Leu Asp Met Cys Val
95 100 105
Gly Glu Lys Arg Arg Ala Ile Ile Pro Ser His Leu Ala Tyr Gly
110 115 120
Lys Arg Gly Phe Pro Pro Ser Val Pro Ala Asp Ala Val Val Gln
125 130 135

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Tyr Asp Val Glu Leu Ile Ala Leu Ile Arg Ala Asn Tyr Trp Leu
140 145 150
Lys Leu Val Lys Gly Ile Leu Pro Leu Val Gly Met Ala Met Val
155 160 165
Pro Ala Leu Leu Gly Leu Ile Gly Tyr His Leu Tyr Arg Lys Ala
170 175 180
Asn Arg Pro Lys Val Ser Lys Lys Lys Leu Lys Glu Glu Lys Arg
185 190 195
Asn Lys Ser Lys Lys Lys
200

<210> 312

<211> 1093

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2655184CB1

<400> 312

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cgttacagag tcaccatcat gtctcttctc accaccctct gaatctgcat tagccagtca 120
actagccctt tcagcgatcat gtgaccagcg cgccccattc agcttggctg gtgtcgtttc 180
acatgaccca ggctggccag tcgtcaggtt gcaccgccct ttgggttccc agcatgctgt 240
tttctctcag cttctctctc aaccttaacc aaatcggcag cagccacctc gaccgccac 300
acattcttgg ccaatcagct cagctgttta ttaccaaat gtcttcacaa caactacagc 360
agcagccttc ggctaacaaa aaagcaggaa aaatccacaa caccctcttc gccaaccaac 420
taaateccaac gcaacatctg gcaaaacctt ttcagcaaat tcttctctggc cgtcagtcgc 480
gcagcctcac ctcaccattt ctgagcttgtt gaaacccaaa actaatctcc aagaaggaga 540
agcttctctc gcagccggag caggtccctt tctagagata ggagaagaga gagatcgctg 600
tctcggggaga gaaatcacaa gccgtcccga tccttctcta ggtctcgtag tcgatctagg 660
tcaaataaaa ggaaatagaa gacagtttgc aagagaagtg gtgtacagga aattacttca 720
tttgacagga gtatgtacag aaaattcaag ttttgtttga gacttcataa gcttgggtgca 780
tttttaagat gttttagctg ttcaaactct tttgtctctt gaaacagtga cacaagggtg 840
taattctcta tggtttgaaa tggatcatat gaggcattga ataccaagaa ttgttacttt 900
acaatgttcc cttaagcaaa attgaatttg ctttgaactt ttagttatgc acagactgat 960
aataaacctc taaacctgcc cagcggaagt gtgttttttt taaatttaaa tacagaacca 1020
ctggcaaaaa ttgaactaag atttactttt ttttccatag ctgggatata ggggggatcc 1080
tctagatcgc acc 1093

<210> 313

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2655184CD1

<400> 313

Met Ala Cys Phe Ser Phe Phe Leu Cys Phe Leu Val His Leu Leu
1 5 10 15
Ile Lys Met Asn Pro Val Thr Glu Ser Pro Ser Cys Leu Phe Ser
20 25 30
Pro Pro Ser Glu Ser Ala Leu Ala Ser Gln Leu Ala Leu Ser Ala
35 40 45

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```
Ser Cys Asp Gln Arg Ala Pro Phe Ser Leu Ala Gly Val Val Ser
      50                      55                      60
His Asp Pro Gly Trp Pro Val Val Arg Leu His Arg Pro Leu Val
      65                      70                      75
Pro Glu His Ala Val Phe Ser Gln Pro Ser Leu Gln Pro
      80                      85
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<210> 314

<211> 3026

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 363000.9c

<400> 314

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tagtaacagt gacttctagt gaacacctta atccttaaac cacaggtcta agttcagttt 120
tgtgattcct ttcatTTTTa cactcaaccc tgaatatgga caagaccggt tagtgtgacc 180
tgttatttta ggaattacaa ctttaaaaaat tcctaatagc cacaatctaa atgtgcaatt 240
caaagctttt aacaatttcc atgttctaaa gtttctaaga gtcttgaggt tatgctaggg 300
ctcctgggta aagtaactgc caactgggac tgtatgtcac ctaagtcagg ataactccct 360
gggtgaagtta cttttatttc aggttctgta ttatttctct tagccatatt ataccgtaa 420
ctgtcctttt tacagaaacc cttccaactt aagagcctgc aaggaagtca tatactgcc 480
aaaaatgccc acataagttg tccatttata aaaagcaatg taattgacat attgcatggc 540
ttccgtaact tcttagctat cttggcttgt tcctaacagg aacaggttgt aggctatgtg 600
agaatactaa agacaaaatg cccaatgcca gagctctcag taaataaaca ggctgtctga 660
aaagtgtctt tcttgaacat gcttaacttt aaggctgaac cttcctgaca ccaattctcc 720
caagatttgt gtaaaagggt gaaataaata atttgtttag gaactgtatc ttaatgtatc 780
catttagctt gaactcttaa tgcaatgact tatctttcat atttaagaca gtcaataccg 840
cataatccaa aactatctta agagcatatt taaggaaact aagccacaag actgttgc 900
tatgatttaa tctaattgca caaaaatttg aaattacaac acctgccatt ttctaagagg 960
aaggttatgc atgcctccat attcaatttg gcactgttac atttgaacca tattgtgaac 1020
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agcaattttt agacctgtgg aaagttttca tgctaaagat aaaagccatt tgttaatggg 1140
caacttactt tgtgtttaag aaccagggtg ctgctatact ttaaaatgtt ggtcactaaa 1200
tattatggac cctgaactgg cttctatgcc taaaaaaaaa aaaaatgggt taactatcac 1260
ttaggtgaca tctatatttc cttcacttca gaagactaat ccatagtgcc tctcagctgt 1320
ttcttataaa ataagaatcg tgtaaccaac tgcttcccat gggataagaa caatggtaac 1380
agtgggttca actgactata cacaattatg ctaatathtt attaatcaa aagcacttta 1440
caagaaaata taagtatggc ttccaatagg aatgtttata ctggacttgg tacciaagtc 1500
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aactaggcaa cctctgccca ggatgagagt tggatttttc aaaaacctct aatttaatat 1860
tgcagcattt cgttttccct gatggcctgt gtttcacagc agtttttaaa gactgcttgt 1920
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gaggtttatt atcagtctgt gcataactaa aagttcaaag caaattcaat tttgcttaag 2100
ggaacattgt aaagtaacaa ttcttggtat tacatgcctc gtatgatcca tttcaaacca 2160
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tcctgtcaaa tgaagtaatt tcctgtacac cacttctctt gcaaactgtc ttctatttcc 2340
tttcatttga cctagatcga ctacgagacc tagagaagga tcgggacggc ttgtgatttc 2400
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tctcccgaga cagcgatctc tctcttctcc tatctctaga aaggggacctg ctccggctgc 2460
gagagaagct tctccttctt ggagatctgc gacgaggtgg aggactcctc ctacgataat 2520
catctcgagg gcgacgaccc caagagggag gtggggccacg atttctactt cttttttcac 2580
cattcgacag ttccactctt acacggcagc cacatagtgt tcttccatct agctctcgga 2640
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gatgcatttc gagatctagg gttaaaaaat gcggcggtc aaatccacac gctccgatga 2880
gtcttcccgc tttcctccgg cccaacacca accaactctc tactcaccg ggagaaatag 2940
aggacactgg ggtcctggtc gaaggtgaac tgtgttcctt gaccgtggtg cacatcccaa 3000
tctacgataa ggacctccg gatgcg 3026
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<210> 315

<211> 1721

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 232818.15

<220>

<221> unsure

<222> 119, 126

<223> a, t, c, g, or other

<400> 315

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ggtcanctga tgctacgctg tgccgttacac gtgacaacgg gggcgaggc aggcgcagg 180
agcaagcgca gattgtgggc ggctgtgtca gctgacccaa ggggccttcg aggtgcctta 240
ggcgccttgc cttgctctca gcaatcgctg ccgccatggc tagtcagtct caggggattc 300
agcagctgct gcaggccgag aagcgggcag ccgagaagg gtccgaggcc cgcaaaagaa 360
agaaccggag gctgaagcag gccaaaaga agctcaggc tgaaattgaa cagtaccgcc 420
tgcaaggaga gaaagaattc aaggccaagg aagctgcggc attgggatcc cgtggcagtt 480
gcagcactga agtgagaag gagaccagg agaagatgac catcctccag acatacttcc 540
ggcagaacag ggatgaagtc ttggacaacc tcttggtctt tgtctgtgac attcggccag 600
aaatccatga aaactaccgc ataaatggat agaagagaga agcacctgtg ctgtggagtg 660
gcatttttaga tgccctcacg aatatgaagc ttagcacagc tctagttaca ttcttatgat 720
atggcattaa attatttcca tatattatat aataggctct tccacttttt ggagagttag 780
aaatctagct tttttgtaca gacttagaaa ttatctaaag atttcatctt tttaacctat 840
atttcttagg aatttaattg ttatatgttg ttttttttct ctatgtcttt tggtcgaagc 900
aacatgtata tcagtgttga ctttttcttt cttagatcta gtttaaaaaa aaaaaaacca 960
cataacaatt ctttgaagaa aggaagggat taaataattt ttttccctaa cactttcttg 1020
aaggtcaggg gctttatcta tgaaaaagta gtaaatagtt ctttgaacc tgtgtgaagc 1080
agcagccagc cttaaagtag tccattcttg ctaatggtta gaacagtga tactagtgga 1140
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cttggttcat gtattacttg gtgtatcgat aatcatttaa aagtaaagac tctgtcatgc 1260
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gatcatgcga aatgcacttt gaccagatg gtctgcagaa cttcacttag gacattagca 1380
caciaatagc acacatatca cataccatt tatatacata attagaaaat gttcctgata 1440
catgtgtcat gtgatttctt ccaacaaatg ttttggaata cagcaagcaa ctagtctgta 1500
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tttcttctct ggtgggctag atgatgtgca ttatacctgt agtaccttca tactagccct 1620
tacaagttaa atgtcctgtg gccatcttag ccgaaagtct ttggttgcaa aatcttatag 1680
gtaaaaacag ttgaaagaac attatgggat tctcttgctt g 1721
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<210> 316
<211> 1489
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 347781.10

<220>
<221> unsure
<222> 524-538
<223> a, t, c, g, or other

<400> 316
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aggccctcta tgtgggctgg gtgggtggaat gagaggccct cctcatggag gcatggtgca 180
gaaagcagga tttggagtgg gaagaaggct tgctccatgg cagtgaatct tcatggatct 240
tcacgcggcc atacaaaccc tagctcctac agaatggtga atttctttga ccagcctttg 300
gtatcttgga gtatgacccc agtttggtat aaactgctta agttagtata attttacttc 360
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aaaagactga atttcttgc ttactttgca tatacagact ggannnnnnn nnnnnnnnac 540
agccatttcc ccaaaggaat gtcttgcata ttactgacat ttggtatggt tcattcattg 600
gaatatttct tattttctac gtgtttgaaa agcctgtaag aaatacagga tttgataata 660
ttttgaaggc aggaaaaacc caaattgttt cttctttgag agtcatgact accttctggt 720
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tgaataaaaag gaatagaatt tttttttgat aaaggatcac aaaacaattc taaaacctaa 840
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gataggcttt tcttgaactg ttagtttttt tgaagtagtt ttttcatggt taatttgtat 960
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gttgtgcctt ctatttatct ttgatttcag tcttggcaat tgtttaaaaa aaaaatctag 1080
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<210> 317
<211> 2833
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2477616CB1

<400> 317
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aggtttgga atatttgact cttttccccc caggttgaat tgaccaaagc aatgggtgatg 180
gagaagccta gtcccttgcg ggtcggggcg gaatttgtga gacagtatta cacactgctg 240
aaccaggccc cagacatgct gcatagattt tatggaaaga actcttctta tgtccatggg 300

ggattggatt caaatggaaa gccagcagat gcagtctacg gacagaaaaga aatccacagg 360
 aaagtgatgt cacaaaactt caccaactgc cacaccaaga ttcgccatgt tgatgctcat 420
 gccacgctaa atgatgggtgt ggtagtccag gtgatggggc ttctctctaa caacaaccag 480
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 gaagaacatt tagaggagcc tgttgctgaa ccagagcctg atcctgaacc agaaccagaa 780
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<210> 318

<211> 466

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2477616CD1

<400> 318

Met Val Met Glu Lys Pro Ser Pro Leu Leu Val Gly Arg Glu Phe

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5

10

15

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His	Arg	Phe	Tyr	Gly	Lys	Asn	Ser	Ser	Tyr	Val	His	Gly	Gly	Leu	35	40	45
Asp	Ser	Asn	Gly	Lys	Pro	Ala	Asp	Ala	Val	Tyr	Gly	Gln	Lys	Glu	50	55	60
Ile	His	Arg	Lys	Val	Met	Ser	Gln	Asn	Phe	Thr	Asn	Cys	His	Thr	65	70	75
Lys	Ile	Arg	His	Val	Asp	Ala	His	Ala	Thr	Leu	Asn	Asp	Gly	Val	80	85	90
Val	Val	Gln	Val	Met	Gly	Leu	Leu	Ser	Asn	Asn	Asn	Gln	Ala	Leu	95	100	105
Arg	Arg	Phe	Met	Gln	Thr	Phe	Val	Leu	Ala	Pro	Glu	Gly	Ser	Val	110	115	120
Ala	Asn	Lys	Phe	Tyr	Val	His	Asn	Asp	Ile	Phe	Arg	Tyr	Gln	Asp	125	130	135
Glu	Val	Phe	Gly	Gly	Phe	Val	Thr	Glu	Pro	Gln	Glu	Glu	Ser	Glu	140	145	150
Glu	Glu	Val	Glu	Glu	Pro	Glu	Glu	Arg	Gln	Gln	Thr	Pro	Glu	Val	155	160	165
Val	Pro	Asp	Asp	Ser	Gly	Thr	Phe	Tyr	Asp	Gln	Ala	Val	Val	Ser	170	175	180
Asn	Asp	Met	Glu	Glu	His	Leu	Glu	Glu	Pro	Val	Ala	Glu	Pro	Glu	185	190	195
Pro	Asp	Pro	Glu	Pro	Glu	Pro	Glu	Gln	Glu	Pro	Val	Ser	Glu	Ile	200	205	210
Gln	Glu	Glu	Lys	Pro	Glu	Pro	Val	Leu	Glu	Glu	Thr	Ala	Pro	Glu	215	220	225
Asp	Ala	Gln	Lys	Ser	Ser	Ser	Pro	Ala	Pro	Ala	Asp	Ile	Ala	Gln	230	235	240
Thr	Val	Gln	Glu	Asp	Leu	Arg	Thr	Phe	Ser	Trp	Ala	Ser	Val	Thr	245	250	255
Ser	Lys	Asn	Leu	Pro	Pro	Ser	Gly	Ala	Val	Pro	Val	Thr	Gly	Ile	260	265	270
Pro	Pro	His	Val	Val	Lys	Val	Pro	Ala	Ser	Gln	Pro	Arg	Pro	Glu	275	280	285
Ser	Lys	Pro	Glu	Ser	Gln	Ile	Pro	Pro	Gln	Arg	Pro	Gln	Arg	Asp	290	295	300
Gln	Arg	Val	Arg	Glu	Gln	Arg	Ile	Asn	Ile	Pro	Pro	Gln	Arg	Gly	305	310	315
Pro	Arg	Pro	Ile	Arg	Glu	Ala	Gly	Glu	Gln	Gly	Asp	Ile	Glu	Pro	320	325	330
Arg	Arg	Met	Val	Arg	His	Pro	Asp	Ser	His	Gln	Leu	Phe	Ile	Gly	335	340	345
Asn	Leu	Pro	His	Glu	Val	Asp	Lys	Ser	Glu	Leu	Lys	Asp	Phe	Phe	350	355	360
Gln	Ser	Tyr	Gly	Asn	Val	Val	Glu	Leu	Arg	Ile	Asn	Ser	Gly	Gly	365	370	375
Lys	Leu	Pro	Asn	Phe	Gly	Phe	Val	Val	Phe	Asp	Asp	Ser	Glu	Pro	380	385	390
Val	Gln	Lys	Val	Leu	Ser	Asn	Arg	Pro	Ile	Met	Phe	Arg	Gly	Glu	395	400	405
Val	Arg	Leu	Asn	Val	Glu	Glu	Lys	Lys	Thr	Arg	Ala	Ala	Arg	Glu	410	415	420
Gly	Asp	Arg	Arg	Asp	Asn	Arg	Leu	Arg	Gly	Pro	Gly	Gly	Pro	Arg	425	430	435

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Gly Gly Leu Gly Gly Gly Met Arg Gly Pro Pro Arg Gly Gly Met
440 445 450
Val Gln Lys Pro Gly Phe Gly Val Gly Arg Gly Leu Ala Pro Arg
455 460 465
Gln

<210> 319
<211> 846
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 360532.1

<400> 319
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cagggctatt taagtcaagg gccggctggc aacccagca agctgtcctg tgagcccgcc 180
agcatggatg acatctacaa ggctgcggtg gagcagctga cagaagagca gaaaaatgag 240
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gagctgggca aggtgatgag gatgctgggc cagaacccca cccctgagga gctgcaggag 360
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<210> 320
<211> 1158
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 360532.9

<400> 320
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ggcgctgag gatggctgca tcagcaccaa ggagctgggc aaggtgatga ggatgctggg 240
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<210> 321

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 110245.1

<400> 321

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acagtgggac agtttctagt gtattgtcat tgcgaccagg cttttaagat tcttagcata 180
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<210> 322

<211> 1939

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 478620.53

<400> 322

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gaggttaacta tggccaagat caatcctcca tgagttagtg tggtagcagt ggtggcggtt 660
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<210> 323

<211> 1684

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1813444CB1

<400> 323

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cccagcccgg	gcagggtat	tcccagcaga	gcagtcagcc	ctacggacag	cagagttaca	180
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gcggctatgg	cagtagccag	agctcccaat	cgtcttacgg	gcagcagtc	tcctatcctg	360
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<210> 324

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<211> 462

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1813444CD1

<400> 324

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Gln	Pro	Tyr	Gly	Gln	Gln	Ser	Tyr	Ser	Gly	Tyr	Ser	Gln	Ser	Thr
				35					40					45
Asp	Thr	Ser	Gly	Tyr	Gly	Gln	Ser	Ser	Tyr	Ser	Ser	Tyr	Gly	Gln
				50					55					60
Ser	Gln	Asn	Thr	Gly	Tyr	Gly	Thr	Gln	Ser	Thr	Pro	Gln	Gly	Tyr
				65					70					75
Gly	Ser	Thr	Gly	Gly	Tyr	Gly	Ser	Ser	Gln	Ser	Ser	Gln	Ser	Ser
				80					85					90
Tyr	Gly	Gln	Gln	Ser	Ser	Tyr	Pro	Gly	Tyr	Gly	Gln	Gln	Pro	Ala
				95					100					105
Pro	Ser	Ser	Thr	Ser	Gly	Ser	Tyr	Gly	Ser	Ser	Ser	Gln	Ser	Ser
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Ser	Tyr	Gly	Gln	Pro	Gln	Ser	Gly	Ser	Tyr	Ser	Gln	Gln	Pro	Ser
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Tyr	Gly	Gly	Gln	Gln	Gln	Ser	Tyr	Gly	Gln	Gln	Gln	Ser	Tyr	Asn
				140					145					150
Pro	Pro	Gln	Gly	Tyr	Gly	Gln	Gln	Asn	Gln	Tyr	Asn	Ser	Ser	Ser
				155					160					165
Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Asn	Tyr	Gly	Gln	Asp
				170					175					180
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<212> DNA

<213> Homo sapiens

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PA-0035 US

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PA-0035 US

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PA-0035 US

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<210> 332

<211> 947

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4005778CB1

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35 40 45
Glu Gly Val Ser His Phe Phe Arg Glu Leu Ala Glu Glu Lys Arg
50 55 60
Glu Gly Tyr Glu Arg Leu Leu Lys Met Gln Asn Gln Arg Gly Gly
65 70 75
Arg Ala Leu Phe Gln Asp Ile Lys Lys Pro Ala Glu Asp Glu Trp
80 85 90
Gly Lys Thr Pro Asp Ala Met Lys Ala Ala Met Ala Leu Glu Lys
95 100 105
Lys Leu Asn Gln Ala Leu Leu Asp Leu His Ala Leu Gly Ser Ala
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Arg Thr Asp Pro His Leu Cys Asp Phe Leu Glu Thr His Phe Leu
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Asp Glu Glu Val Lys Leu Ile Lys Lys Met Gly Asp His Leu Thr
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<223> a, t, c, g, or other

<400> 334

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<223> Incyte ID No: 863406CB1

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<221> misc_feature

<223> Incyte ID No: 863406CD1

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Leu Thr Val Asn Ile Leu Thr Met Gly Tyr Trp Pro Thr Tyr Val
485 490 495
Pro Met Glu Val His Leu Pro Pro Glu Met Val Lys Leu Gln Glu
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<210> 343
<211> 364
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2706606CD1

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20 25 30
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35 40 45
Ser Ile Gly Thr Glu Asn Thr Glu Glu Asn Arg Arg Phe Tyr Arg
50 55 60
Gln Leu Leu Leu Thr Ala Asp Asp Arg Val Asn Pro Cys Ile Gly
65 70 75
Gly Val Ile Leu Phe His Glu Thr Leu Tyr Gln Lys Ala Asp Asp
80 85 90
Gly Arg Pro Phe Pro Gln Val Ile Lys Ser Lys Gly Gly Val Val
95 100 105
Gly Ile Lys Val Asp Lys Gly Val Val Pro Leu Ala Gly Thr Asn
110 115 120
Gly Glu Thr Thr Thr Gln Gly Leu Asp Gly Leu Ser Glu Arg Cys
125 130 135
Ala Gln Tyr Lys Lys Asp Gly Ala Asp Phe Ala Lys Trp Arg Cys
140 145 150
Val Leu Lys Ile Gly Glu His Thr Pro Ser Ala Leu Ala Ile Met
155 160 165
Glu Asn Ala Asn Val Leu Ala Arg Tyr Ala Ser Ile Cys Gln Gln
170 175 180
Asn Gly Ile Val Pro Ile Val Glu Pro Glu Ile Leu Pro Asp Gly
185 190 195
Asp His Asp Leu Lys Arg Cys Gln Tyr Val Thr Glu Lys Val Leu
200 205 210
Ala Ala Val Tyr Lys Ala Leu Ser Asp His His Ile Tyr Leu Glu
215 220 225
Gly Thr Leu Leu Lys Pro Asn Met Val Thr Pro Gly His Ala Cys
230 235 240
Thr Gln Lys Phe Ser His Glu Glu Ile Ala Met Ala Thr Val Thr
245 250 255
Ala Leu Arg Arg Thr Val Pro Pro Ala Val Thr Gly Ile Thr Phe
260 265 270
Leu Ser Gly Gly Gln Ser Glu Glu Glu Ala Ser Ile Asn Leu Asn
275 280 285
Ala Ile Asn Lys Cys Pro Leu Leu Lys Pro Trp Ala Leu Thr Phe
290 295 300
Ser Tyr Gly Arg Ala Leu Gln Ala Ser Ala Leu Lys Ala Trp Gly
305 310 315

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Gly Lys Lys Glu Asn Leu Lys Ala Ala Gln Glu Glu Tyr Val Lys
320 325 330
Arg Ala Leu Ala Asn Ser Leu Ala Cys Gln Gly Lys Tyr Thr Pro
335 340 345
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<210> 344
<211> 162
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 118006.1

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<210> 345
<211> 4143
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1039889.26

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<210> 346

<211> 392

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 481480.7

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<220>

<221> unsure

<222> 311, 324, 353, 382, 389

<223> a, t, c, g, or other

<400> 346

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<210> 347

<211> 1860

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 662575CB1

<400> 347

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<210> 348

<211> 450

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 662575CD1

<400> 348

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Ser	Val	Phe	Ala	Pro	Gln	Glu	Gln	Glu	Tyr	Gln	Gln	Ala	Leu	Leu	
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Phe	Ile	Ala	Val	Tyr	Leu	Ile	Arg	Phe	Cys	Cys	Cys	Arg	Pro	Pro	
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Glu	Pro	Pro	Gly	Ser	Lys	Ile	Pro	Ser	Pro	Gly	Gly	Gly	Cys	Val	
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Thr	Trp	Ser	Cys	Ile	Val	Ala	Leu	Leu	Ala	Gly	Cys	Thr	Gly	Ile	
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Ile	Asp	His	Leu	Val	Leu	Glu	Thr	Val	Glu	Arg	Leu	Gly	Glu	Ala	
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			170						175					180	
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			305						310					315	
Thr	Leu	Ser	Gln	Arg	Ala	Leu	Ala	Asn	Ile	His	Ser	Gln	Leu	Leu	
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Gly	Leu	Glu	Arg	Glu	Ala	Val	Pro	Gln	Phe	Pro	Ser	Ala	Gln	Lys	
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Phe	His	Gln	Leu	Val	Ala	Leu	Leu	His	Cys	Arg	Ser	Leu	His	Lys
				365					370					375
Asp	Tyr	Gly	Ala	Ala	Leu	Arg	Gly	Leu	Cys	Glu	Asp	Ala	Leu	Glu
				380					385					390
Gly	Leu	Leu	Phe	Leu	Leu	Leu	Phe	Ser	Leu	Leu	Ser	Ala	Gly	Ala
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Leu	Ala	Thr	Ala	Leu	Cys	Ser	Leu	Pro	Arg	Ala	Trp	Ala	Leu	Phe
				410					415					420
Pro	Pro	Ser	Asp	Asp	Tyr	Asp	Asp	Thr	Asp	Asp	Asp	Asp	Pro	Phe
				425					430					435
Asn	Pro	Gln	Glu	Ser	Lys	Arg	Phe	Val	Gln	Trp	Gln	Ser	Ser	Ile
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<210> 349

<211> 875

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 027619.3

<220>

<221> unsure

<222> 844, 847

<223> a, t, c, g, or other

<400> 349

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PA-0035 US

<212> DNA

<213> Homo sapiens

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<210> 367
 <211> 1977
 <212> PRT
 <213> Homo sapiens

<220>
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<400> 367

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Lys	Ser	Lys	Glu	Pro	Lys	Glu	Glu	Lys	Lys	Asp	Asp	Asp	Glu	Glu
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Phe	Ile	Tyr	Gly	Asp	Ile	Pro	Pro	Gly	Met	Val	Ser	Glu	Pro	Leu
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Lys	Ile	Leu	Val	His	Ser	Leu	Phe	Ser	Met	Leu	Ile	Met	Cys	Thr
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Lys	Tyr	Phe	Tyr	Tyr	Leu	Glu	Gly	Ser	Lys	Asp	Ala	Leu	Leu	Cys	
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Ser	Phe	Lys	Gly	Arg	Gly	Arg	Asp	Ile	Gly	Ser	Glu	Thr	Glu	Phe	
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Gly Ser Leu Phe Val Pro His Arg Pro Gln Glu Arg Arg Ser Ser	590	595	600
Asn Ile Ser Gln Ala Ser Arg Ser Pro Pro Met Leu Pro Val Asn	605	610	615
Gly Lys Met His Ser Ala Val Asp Cys Asn Gly Val Val Ser Leu	620	625	630
Val Asp Gly Arg Ser Ala Leu Met Leu Pro Asn Gly Gln Leu Leu	635	640	645
Pro Glu Gly Thr Thr Asn Gln Ile His Lys Lys Arg Arg Cys Ser	650	655	660
Ser Tyr Leu Leu Ser Glu Asp Met Leu Asn Asp Pro Asn Leu Arg	665	670	675
Gln Arg Ala Met Ser Arg Ala Ser Ile Leu Thr Asn Thr Val Glu	680	685	690
Glu Leu Glu Glu Ser Arg Gln Lys Cys Pro Pro Trp Trp Tyr Arg	695	700	705
Phe Ala His Lys Phe Leu Ile Trp Asn Cys Ser Pro Tyr Trp Ile	710	715	720
Lys Phe Lys Lys Cys Ile Tyr Phe Ile Val Met Asp Pro Phe Val	725	730	735
Asp Leu Ala Ile Thr Ile Cys Ile Val Leu Asn Thr Leu Phe Met	740	745	750
Ala Met Glu His His Pro Met Thr Glu Glu Phe Lys Asn Val Leu	755	760	765
Ala Ile Gly Asn Leu Val Phe Thr Gly Ile Phe Ala Ala Glu Met	770	775	780
Val Leu Lys Leu Ile Ala Met Asp Pro Tyr Glu Tyr Phe Gln Val	785	790	795
Gly Trp Asn Ile Phe Asp Ser Leu Ile Val Thr Leu Ser Leu Val	800	805	810
Glu Leu Phe Leu Ala Asp Val Glu Gly Leu Ser Val Leu Arg Ser	815	820	825
Phe Arg Leu Leu Arg Val Phe Lys Leu Ala Lys Ser Trp Pro Thr	830	835	840
Leu Asn Met Leu Ile Lys Ile Ile Gly Asn Ser Val Gly Ala Leu	845	850	855
Gly Asn Leu Thr Leu Val Leu Ala Ile Ile Val Phe Ile Phe Ala	860	865	870
Val Val Gly Met Gln Leu Phe Gly Lys Ser Tyr Lys Glu Cys Val	875	880	885
Cys Lys Ile Asn Asp Asp Cys Thr Leu Pro Arg Trp His Met Asn	890	895	900
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Ala Met Cys Leu Ile Val Tyr Met Met Val Met Val Ile Gly Asn	935	940	945
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Ser Ser Asp Asn Leu Thr Ala Ile Glu Glu Asp Pro Asp Ala Asn	965	970	975
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1460 1465 1470
Tyr Asn Ala Met Lys Lys Leu Gly Ser Lys Lys Pro Gln Lys Pro
1475 1480 1485
Ile Pro Arg Pro Gly Asn Lys Ile Gln Gly Cys Ile Phe Asp Leu
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1520 1525 1530
His Met Thr Glu Val Leu Tyr Trp Ile Asn Val Val Phe Ile Ile
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Tyr Tyr Phe Thr Val Gly Trp Asn Ile Phe Asp Phe Val Val Val
1565 1570 1575
Ile Ile Ser Ile Val Gly Met Phe Leu Ala Asp Leu Ile Glu Thr
1580 1585 1590
Tyr Phe Val Ser Pro Thr Leu Phe Arg Val Ile Arg Leu Ala Arg
1595 1600 1605
Ile Gly Arg Ile Leu Arg Leu Val Lys Gly Ala Lys Gly Ile Arg
1610 1615 1620
Thr Leu Leu Phe Ala Leu Met Met Ser Leu Pro Ala Leu Phe Asn
1625 1630 1635
Ile Gly Leu Leu Leu Phe Leu Val Met Phe Ile Tyr Ala Ile Phe
1640 1645 1650
Gly Met Ser Asn Phe Ala Tyr Val Lys Lys Glu Asp Gly Ile Asn
1655 1660 1665
Asp Met Phe Asn Phe Glu Thr Phe Gly Asn Ser Met Ile Cys Leu
1670 1675 1680
Phe Gln Ile Thr Thr Ser Ala Gly Trp Asp Gly Leu Leu Ala Pro
1685 1690 1695
Ile Leu Asn Ser Lys Pro Pro Asp Cys Asp Pro Lys Lys Val His
1700 1705 1710
Pro Gly Ser Ser Val Glu Gly Asp Cys Gly Asn Pro Ser Val Gly
1715 1720 1725
Ile Phe Tyr Phe Val Ser Tyr Ile Ile Ile Ser Phe Leu Val Val
1730 1735 1740
Val Asn Met Tyr Ile Ala Val Ile Leu Glu Asn Phe Ser Val Ala
1745 1750 1755
Thr Glu Glu Ser Thr Glu Pro Leu Ser Glu Asp Asp Phe Glu Met
1760 1765 1770
Phe Tyr Glu Val Trp Glu Lys Phe Asp Pro Asp Ala Thr Gln Phe
1775 1780 1785
Ile Glu Phe Ser Lys Leu Ser Asp Phe Ala Ala Ala Leu Asp Pro
1790 1795 1800
Pro Leu Leu Ile Ala Lys Pro Asn Lys Val Gln Leu Ile Ala Met
1805 1810 1815
Asp Leu Pro Met Val Ser Gly Asp Arg Ile His Cys Leu Asp Ile
1820 1825 1830

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Leu Phe Ala Phe Thr Lys Arg Val Leu Gly Glu Ser Gly Glu Met
1835 1840 1845
Asp Ser Leu Arg Ser Gln Met Glu Glu Arg Phe Met Ser Ala Asn
1850 1855 1860
Pro Ser Lys Val Ser Tyr Glu Pro Ile Thr Thr Thr Leu Lys Arg
1865 1870 1875
Lys Gln Glu Asp Val Ser Ala Thr Val Ile Gln Arg Ala Tyr Arg
1880 1885 1890
Arg Tyr Arg Leu Arg Gln Asn Val Lys Asn Ile Ser Ser Ile Tyr
1895 1900 1905
Ile Lys Asp Gly Asp Arg Asp Asp Asp Leu Leu Asn Lys Lys Asp
1910 1915 1920
Met Ala Phe Asp Asn Val Asn Glu Asn Ser Ser Pro Glu Lys Thr
1925 1930 1935
Asp Ala Thr Ser Ser Thr Thr Ser Pro Pro Ser Tyr Asp Ser Val
1940 1945 1950
Thr Lys Pro Asp Lys Glu Lys Tyr Glu Gln Asp Arg Thr Glu Lys
1955 1960 1965
Glu Asp Lys Gly Lys Asp Ser Lys Glu Ser Lys Lys
1970 1975

<210> 368

<211> 653

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 351157.2

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<210> 369

<211> 2309

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 088957CB1

<400> 369

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taaagatttg ggagaagaaa atttcaaagc cttgggtgtg attgcctttg ctcagtatct 180
tcagcagtggt ccatttgaag atcatgtaaa attagtgaat gaagtaactg aatttgcaaa 240

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aacatgtgtt gctgatgagt cagctgaaaa ttgtgacaaa tcacttcata cccctttttgg 300
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<210> 370

<211> 609

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 088957CD1

<400> 370

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20 25 30
Val Ala His Arg Phe Lys Asp Leu Gly Glu Glu Asn Phe Lys Ala
35 40 45
Leu Val Leu Ile Ala Phe Ala Gln Tyr Leu Gln Gln Cys Pro Phe
50 55 60
Glu Asp His Val Lys Leu Val Asn Glu Val Thr Glu Phe Ala Lys
65 70 75

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Thr	Cys	Val	Ala	Asp	Glu	Ser	Ala	Glu	Asn	Cys	Asp	Lys	Ser	Leu	
				80					85					90	
His	Thr	Leu	Phe	Gly	Asp	Lys	Leu	Cys	Thr	Val	Ala	Thr	Leu	Arg	
				95					100					105	
Glu	Thr	Tyr	Gly	Glu	Met	Ala	Asp	Cys	Cys	Ala	Lys	Gln	Glu	Pro	
				110					115					120	
Glu	Arg	Asn	Glu	Cys	Phe	Leu	Gln	His	Lys	Asp	Asp	Asn	Pro	Asn	
				125					130					135	
Leu	Pro	Arg	Leu	Val	Arg	Pro	Glu	Val	Asp	Val	Met	Cys	Thr	Ala	
				140					145					150	
Phe	His	Asp	Asn	Glu	Glu	Thr	Phe	Leu	Lys	Lys	Tyr	Leu	Tyr	Glu	
				155					160					165	
Ile	Ala	Arg	Arg	His	Pro	Tyr	Phe	Tyr	Ala	Pro	Glu	Leu	Leu	Phe	
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Phe	Ala	Lys	Arg	Tyr	Lys	Ala	Ala	Phe	Thr	Glu	Cys	Cys	Gln	Ala	
				185					190					195	
Ala	Asp	Lys	Ala	Ala	Cys	Leu	Leu	Pro	Lys	Leu	Asp	Glu	Leu	Arg	
				200					205					210	
Asp	Glu	Gly	Lys	Ala	Ser	Ser	Ala	Lys	Gln	Arg	Leu	Lys	Cys	Ala	
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Ser	Leu	Gln	Lys	Phe	Gly	Glu	Arg	Ala	Phe	Lys	Ala	Trp	Ala	Val	
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Ala	Arg	Leu	Ser	Gln	Arg	Phe	Pro	Lys	Ala	Glu	Phe	Ala	Glu	Val	
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Ser	Lys	Leu	Val	Thr	Asp	Leu	Thr	Lys	Val	His	Thr	Glu	Cys	Cys	
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His	Gly	Asp	Leu	Leu	Glu	Cys	Ala	Asp	Asp	Arg	Ala	Asp	Leu	Ala	
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Lys	Tyr	Ile	Cys	Glu	Asn	Gln	Asp	Ser	Ile	Ser	Ser	Lys	Leu	Lys	
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Glu	Val	Glu	Asn	Asp	Glu	Met	Pro	Ala	Asp	Leu	Pro	Ser	Leu	Ala	
				320					325					330	
Ala	Asp	Phe	Val	Glu	Ser	Lys	Asp	Val	Cys	Lys	Asn	Tyr	Ala	Glu	
				335					340					345	
Ala	Lys	Asp	Val	Phe	Leu	Gly	Met	Phe	Leu	Tyr	Glu	Tyr	Ala	Arg	
				350					355					360	
Arg	His	Pro	Asp	Tyr	Ser	Val	Val	Leu	Leu	Leu	Arg	Leu	Ala	Lys	
				365					370					375	
Thr	Tyr	Glu	Thr	Thr	Leu	Glu	Lys	Cys	Cys	Ala	Ala	Ala	Asp	Pro	
				380					385					390	
His	Glu	Cys	Tyr	Ala	Lys	Val	Phe	Asp	Glu	Phe	Lys	Pro	Leu	Val	
				395					400					405	
Glu	Glu	Pro	Gln	Asn	Leu	Ile	Lys	Gln	Asn	Cys	Glu	Leu	Phe	Glu	
				410					415					420	
Gln	Leu	Gly	Glu	Tyr	Lys	Phe	Gln	Asn	Ala	Leu	Leu	Val	Arg	Tyr	
				425					430					435	
Thr	Lys	Lys	Val	Pro	Gln	Val	Ser	Thr	Pro	Thr	Leu	Val	Glu	Val	
				440					445					450	
Ser	Arg	Asn	Leu	Gly	Lys	Val	Gly	Ser	Lys	Cys	Cys	Lys	His	Pro	
				455					460					465	
Glu	Ala	Lys	Arg	Met	Pro	Cys	Ala	Glu	Asp	Tyr	Leu	Ser	Val	Val	
				470					475					480	
Leu	Asn	Gln	Leu	Cys	Val	Leu	His	Glu	Lys	Thr	Pro	Val	Ser	Asp	
				485					490					495	

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Arg Val Thr Lys Cys Cys Thr Glu Ser Leu Val Asn Arg Arg Pro
500 505 510
Cys Phe Ser Ala Leu Glu Val Asp Glu Thr Tyr Val Pro Lys Glu
515 520 525
Phe Asn Ala Glu Thr Phe Thr Phe His Ala Asp Ile Cys Thr Leu
530 535 540
Ser Glu Lys Glu Arg Gln Ile Lys Lys Gln Thr Ala Leu Val Glu
545 550 555
Leu Val Lys His Lys Pro Lys Ala Thr Lys Glu Gln Leu Lys Ala
560 565 570
Val Met Asp Asp Phe Ala Ala Phe Val Glu Lys Cys Cys Lys Ala
575 580 585
Asp Asp Lys Glu Thr Cys Phe Ala Glu Glu Gly Lys Lys Leu Val
590 595 600
Ala Ala Ser Gln Ala Ala Leu Gly Leu
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<210> 371

<211> 1620

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 980446.1

<220>

<221> unsure

<222> 1524

<223> a, t, c, g, or other

<400> 371

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<211> 1186

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 198827.1

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<211> 3128

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 1102297.22

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<211> 534

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 215112.1

<400> 374

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cctgattcac acatgtgcc ctcacagaca ggcacagaca cagggttggc atgcctcta 180
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<211> 1254

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<213> Homo sapiens

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<223> Incyte ID No: 171495.1

<400> 375

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<210> 376

<211> 1962

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 242010.43

<400> 376

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<210> 377

<211> 2919

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 5834958CB1

<400> 377

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<210> 378

<211> 614

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 5834958CD1

<400> 378

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20 25 30
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35 40 45
Val Leu Ser Val Ala Gly Glu Ile Ile Gly Leu Gly Asn Val Trp
50 55 60
Arg Phe Pro Tyr Leu Cys Tyr Lys Asn Gly Gly Gly Ala Phe Phe
65 70 75
Ile Pro Tyr Phe Ile Phe Phe Phe Val Cys Gly Ile Pro Val Phe
80 85 90
Phe Leu Glu Val Ala Leu Gly Gln Tyr Thr Ser Gln Gly Ser Val
95 100 105
Thr Ala Trp Arg Lys Ile Cys Pro Leu Phe Gln Gly Ile Gly Leu
110 115 120
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Ala	Ser	Val	Val	Ile	Glu	Ser	Tyr	Leu	Asn	Val	Tyr	Tyr	Ile	Ile	125	130	135
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Glu	Leu	Pro	Trp	Thr	Thr	Cys	Asn	Asn	Phe	Trp	Asn	Thr	Glu	His	155	160	165
Cys	Thr	Asp	Phe	Leu	Asn	His	Ser	Gly	Ala	Gly	Thr	Val	Thr	Pro	170	175	180
Phe	Glu	Asn	Phe	Thr	Ser	Pro	Val	Met	Glu	Phe	Trp	Glu	Arg	Arg	185	190	195
Val	Leu	Gly	Ile	Thr	Ser	Gly	Ile	His	Asp	Leu	Gly	Ser	Leu	Arg	200	205	210
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Tyr	Lys	Asp	Cys	Ile	Ala	Leu	Cys	Phe	Leu	Asn	Ser	Ala	Thr	Ser	320	325	330
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Leu	Ser	Gln	Leu	Trp	Ser	Cys	Leu	Phe	Phe	Ile	Met	Leu	Ile	Phe	380	385	390
Leu	Gly	Leu	Asp	Ser	Gln	Phe	Val	Cys	Val	Glu	Cys	Leu	Val	Thr	395	400	405
Ala	Ser	Ile	Asp	Met	Phe	Pro	Arg	Gln	Leu	Arg	Lys	Ser	Gly	Arg	410	415	420
Arg	Glu	Leu	Leu	Ile	Leu	Thr	Ile	Ala	Val	Met	Cys	Tyr	Leu	Ile	425	430	435
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Phe	Asp	Tyr	Tyr	Ala	Ser	Ser	Gly	Ile	Cys	Leu	Leu	Phe	Leu	Ser	455	460	465
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Phe	Tyr	Asp	Asn	Ile	Glu	Asp	Met	Ile	Gly	Tyr	Arg	Pro	Trp	Pro	485	490	495
Leu	Val	Lys	Ile	Ser	Trp	Leu	Phe	Leu	Thr	Pro	Gly	Leu	Cys	Leu	500	505	510
Ala	Thr	Phe	Leu	Phe	Ser	Leu	Ser	Lys	Tyr	Thr	Pro	Leu	Lys	Tyr	515	520	525
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<222> 236-590  
<223> a, t, c, g, or other
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372

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<213> Homo sapiens

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<223> a, t, c, g, or other

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<211> 2905

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<223> Incyte ID No: 480885.2

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<211> 915

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<213> Homo sapiens

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 ctgctcaggg gacagagttt gaggcactgc agaggaaccg gccaaagtat gagaccata 780
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<222> 850
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<211> 796
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 1100320.4

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<211> 864

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<223> Incyte ID No: 246727.11

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<222> 847, 856

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<211> 2742

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 246727.17

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<221> unsure

<222> 1841-2010

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<211> 742

<212> DNA

<213> Homo sapiens

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<400> 387

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<211> 1161

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 1102322.18

<400> 388

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<211> 1432

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 2070610CB1

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ggaagcgtag ttgggaaaaa aggccatttg ctaattgcac gtgtgtattg caatgggaaa 1380
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<210> 390

<211> 415

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2070610CD1

<400> 390

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 20         25         30
His Ser Ser Gln Pro Asn Ala Thr Leu Tyr Lys Met Ser Ser Ile
 35         40         45
Asn Ala Asp Phe Ala Phe Asn Leu Tyr Arg Arg Phe Thr Val Glu
 50         55         60
Thr Pro Asp Lys Asn Ile Phe Phe Ser Pro Val Ser Ile Ser Ala
 65         70         75
Ala Leu Val Met Leu Ser Phe Gly Ala Cys Cys Ser Thr Gln Thr
 80         85         90
Glu Ile Val Glu Thr Leu Gly Phe Asn Leu Thr Asp Thr Pro Met
 95        100        105
Val Glu Ile Gln His Gly Phe Gln His Leu Ile Cys Ser Leu Asn
110        115        120
Phe Pro Lys Lys Glu Leu Glu Leu Gln Ile Gly Asn Ala Leu Phe
125        130        135
Ile Gly Lys His Leu Lys Pro Leu Ala Lys Phe Leu Asn Asp Val
140        145        150
Lys Thr Leu Tyr Glu Thr Glu Val Phe Ser Thr Asp Phe Ser Asn
155        160        165
Ile Ser Ala Ala Lys Gln Glu Ile Asn Ser His Val Glu Met Gln
170        175        180
Thr Lys Gly Lys Val Val Gly Leu Ile Gln Asn Leu Lys Pro Asn
185        190        195
Thr Ile Met Val Leu Val Asn Tyr Ile His Phe Lys Ala Gln Trp

```


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	200		205		210
Ala Asn Pro Phe	Asp Pro Ser Lys Thr	Glu Asp Ser Ser Ser	Phe		
	215		220		225
Leu Ile Asp Lys	Thr Thr Thr Val Gln	Val Pro Met Met His	Gln		
	230		235		240
Met Glu Gln Tyr	Tyr His Leu Val Asp	Met Glu Leu Asn Cys	Thr		
	245		250		255
Val Leu Gln Met	Asp Tyr Ser Lys Asn	Ala Leu Ala Leu Phe	Val		
	260		265		270
Leu Pro Lys Glu	Gly Gln Met Glu Ser	Val Glu Ala Ala Met	Ser		
	275		280		285
Ser Lys Thr Leu	Lys Lys Trp Asn Arg	Leu Leu Gln Lys Gly	Trp		
	290		295		300
Val Asp Phe Phe	Val Pro Lys Phe Ser	Ile Ser Ala Thr Tyr	Asp		
	305		310		315
Leu Gly Ala Thr	Leu Leu Lys Met Gly	Ile Gln His Ala Tyr	Ser		
	320		325		330
Glu Asn Ala Asp	Phe Ser Gly Leu Thr	Glu Asp Asn Gly Leu	Lys		
	335		340		345
Leu Ser Asn Ala	Ala His Lys Ala Val	Leu His Ile Gly Glu	Lys		
	350		355		360
Gly Thr Glu Ala	Ala Ala Val Pro Glu	Val Glu Leu Ser Asp	Gln		
	365		370		375
Pro Glu Asn Thr	Phe Leu His Pro Ile	Ile Gln Ile Asp Arg	Ser		
	380		385		390
Phe Met Leu Leu	Ile Leu Glu Arg Ser	Thr Arg Ser Ile Leu	Phe		
	395		400		405
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	410		415		

<210> 391

<211> 1215

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 336733.3

<400> 391

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tactgcgcta	gtcccaccgc	cggaggggac	gcaggcgtgc	aaatctgtct	cgctgcagg	180
aagcgccgaa	aacgctgcat	gcgtcacgct	atgtgctgcc	ccgggaatta	ctgcaaaaat	240
ggaatatgtg	tgtcttctga	tcaaaatcat	ttccgaggag	aaattgagga	aaccatcact	300
gaaagctttg	gtaatgatca	tagcaccttg	gatgggtatt	ccagaagaac	caccttgtct	360
tcaaaaatgt	atcacaccaa	aggacaagaa	ggttctgttt	gtctccggtc	atcagactgt	420
gcctcaggat	tgtgttgtgc	tagacacttc	tgggtccaaga	tctgtaaacc	tgtcctgaaa	480
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aatctttcta	ggcttcacac	ttgtcagaga	cactaaacca	gctatccaaa	tgcagtgaac	660
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gatatacaag	ttctgtgggt	tcagttaagc	attccaataa	caccttccaa	aaacctggag	780
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aattctcagt	gtggcactta	cctgtaaatg	caatgaaact	tttaattatt	tttctaaagg	900
tgctgcactg	cctatttttt	ctcttggtat	gtaaatTTTT	gtacacattg	attgttatct	960
tgactgacaa	atattctata	ttgaactgaa	gtaaatcatt	tcagcttata	gttcttaaaa	1020

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```
gcataaccct ttacccatt taattctaga gtctagaacg caaggatctc ttggaatgac 1080
aaatgatagg tacctaaaat gtaacatgaa aatactagct tattttctga aatgtactat 1140
cttaatgctt aaattatatt tccctttagg ctgtgatagt ttttgaaata aaatttaaca 1200
tttaatatca aaaaa 1215
```

<210> 392

<211> 975

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1326902.13

<220>

<221> unsure

<222> 174

<223> a, t, c, g, or other

<400> 392

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aagaggaaaag gaactgatgt tcccaagtgg atcagcatca tgaccgagcg gacntgccc 180
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tgctgtacct gtgtgggtgga gatgactgaa gcccagacag gcctgagcgt ccagaaatgg 540
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<210> 393

<211> 1660

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1326902.6

<400> 393

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catagatact gctttgtgct tccttcaaaa tgtctactgt tcacgaaatc ctgtgcaagc 180
tcagcttgga gggatgatcac tctacacccc caagtgcata tgggtctgtc aaagcctata 240
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tggatgaggt caccattgtc aacattttga ccaaccgag caatgcacag agacaggata 360
ttgccttcgc ctaccagaga aggacaaaaa aggaacttgc atcagcactg aagtcagcct 420
tatctggcca cctggagacg ttgattttgg gcctattgaa gacacctgct cagtatgacg 480
```

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```
cttctgagct aaaagcttcc atgaaggggc tgggaaccga cgaggactct ctcatgaga 540
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acaagactga tctggagaag gacattatct cggacacatc tggtgacttc cgcaagctga 660
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tgtttgaaaa ttaaacgtgc ttgggggttc gctgggtgagg ctgtccctgt aggaagaaaag 1560
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<210> 394

<211> 773

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 013521.16

<400> 394

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taaccaacat tctgctaaga atacagtcac ccaagggttt tgatgtgaag gaccatgctc 180
agaagcagga gaccgctaac agcctgccag cccctcctca gatgccctg ccggagatcc 240
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aaggttatta tgaggaaagt gtgccgctga gccccggaaa agctccggaa tacatcacat 360
caaattatga ttccgatgcy atgagcagct cttatgagtc gtatgatgaa gaggaggagg 420
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aaaagaagaa gcacgagctg aagattactc agcagggcac ggaccgcgtt gttctcgccg 720
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<210> 395

<211> 1321

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 985369.1

<400> 395

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cgaaagaggg cccaacctac aactaagaag ggacaaacct tgaactaagt aagaccttac 240
acaccagaa agaacttg gacctcttc ttcagggaca atgcagtagc cacttggctt 300
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cagatttgta atatatgtct ggagagctat ttataagaaa ttaagagga ttgttttggt 780
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ctcaagttag ttgttttgca gagatgttgc cttcagatgt taatcaggtc tctcaagttt 1260
catggagtct atgctgatcc ttttaattgac aaataaaaaga tatatatctg tgggtgtgcaa 1320
c

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<210> 396

<211> 1275

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 002455.1

<220>

<221> unsure

<222> 525

<223> a, t, c, g, or other

<400> 396

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cccgggggtg ccgagccggc ggggggtgag gtggctgcgc cggcggccgg gctaggaggt 120
gcgggactg ggggcgcggg aggggacgtg gcaggccccg cgggggccac ggcatccca 180
ggggccagga aggtcccgtt gcgggcacgc aatctgccct ccgtccttct tcacggagcc 240
gtccccggca ggcggggggc ggggtgtggc ccgtcggggc cggacgtgag ccttgggcga 300
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cctccgtact gcggggaccc ccggagctgg agcccggcct ctttgagccg ccgccggcag 480
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acttcagaaa aaagagatga agacgagttg gggattgttt aatcacaacc tcaagtgtta 1020
aaacaaaaac aaacaaacac gttttagtgt tcttactgga ccagaggagt caagaaacca 1080

```

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```
agatgggtttg ggggtatgggg tggggacggc aaaaggggta agagctggct tctgtagcca 1140
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agtgtcctag tccctccctt ccctctcctt gagtgcattt tgaattaaag cctatattga 1260
aaaaaaaaaa aaagg                                     1275
```

<210> 397
<211> 792
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 372647.1

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<400> 397
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tcttattaat agtttcattg agagagaatt caacagggtat ttgtttgtaa gtactaacia 180
aaaattgtac attcaatact tatcaaacia aagttacatg atcttattct tccactatta 240
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ttattagagt cacactatgt gatgggtattt tttctttatc cacaatctcc cctgactccc 360
ctgttactat tatggaataa tgtaaagtta agaattaatt atgattacag tagttatggg 420
taattaggtta ctatgaatca aatcttagaa atcactttca ttattgtaat agtgcctcag 480
aaaacaattt ttctcttttg acttttttaa ttgttaatac tatcataaat ggcatttatg 540
tattcattta ccaaatattg atcaaaaact actttgtgtc taccatcaga atttaaaaga 600
caccttccta gatcatagag aagggttact gacatggcac atacagaatg gtaaacagat 660
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gttaaacgaa gc                                     792
```

<210> 398
<211> 1293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 208075.1

<220>
<221> unsure
<222> 540-668
<223> a, t, c, g, or other

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caatccagag gaaaatttta aaggcttaca gccttaggat tataggatac tatataatac 120
ttttggtaca gagatagaat taaataacat aaaaatcaaa aatttattag gctaaaattt 180
tgaggagaaa gtggtatgaa aatacaaat caaggagtaa aaggaaaagt ggggcattcc 240
ttgtacttaa aaattgcctt gttccaggta agactgatca taaaaaatg gccctgttca 300
taaaattttt aaaaagatca tagtatctat caaataactt atattaagaa cctcctgggc 360
taaattttaa aagtaataca acagttttat ttaaacatgt agtgtctacg gtatgccagc 420
actttgcagc tatttataat gagaaattt agatgtcaat atagcaatgt gcaagaagat 480
agagattttc aaaattcact taagagtatc tgagcataaa atgttaagat tgctgatcgn 540
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
```

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<210> 399
<211> 2521
<212> DNA
<213> Homo sapiens
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<220>  
<221> misc_feature  
<223> Incyte ID No: 209279.1
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386

PA-0035 US

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aatggagggtg aaagattgtg gagcccacaa cctagagaaa ggattgacaa ttttttttcc 2160
ataaagggcc tagtagtatg tatttttaggc tgtgtggtcc acatgagggc agattcttct 2220
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ctttgaaaaa tataagcacc attcttagct ttaggtacac acaaaaataa gctatggctg 2340
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caactaaatg cgtgcgaatc atgggcctat gtcatgattc ccaaagaatg agtttcatgg 2460
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g 2521
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<210> 400

<211> 517

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 381058.1

<400> 400

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ccagtgccaa ataaccggtt cgcttttttt tctctgaaaa tgttcccca aaatggagga 180
tttcgcagac tctgaagagc ctgcttggtt gagcagcggt tttttctttt cccggtgtct 240
cggccttcac gccgctcctt gcccatcgcc tcagagcgcc ccctaagact cccggccac 300
acgcgcgcgc gcgcggcggt agctggacat cagaaacaat tcttccccgc ccccatcg 360
gtaaaaatgg ccgaaaaatg aaacgttaac gcttggtttt cgtactgcgt cgtggaacaa 420
gccgcctgca gtacagtgcg aggcgggtga tttgcacttg tttagtcaag tcacctcaca 480
tcctttttct ctttatcaaa atagtattag tccagag 517
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<210> 401

<211> 574

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 046977.1

<400> 401

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aatgccatgc aatgaaatgg cagcatcggt tcttttctgc agcttcttgg gcagatcttt 180
aaatgggcaa agtgaccaac aaggtgggtg ggcaggtgag aggatgtgct tgctgcctct 240
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